

# PROPOSED SITE DEVELOPMENT PLANS

FOR



PROPOSED RESTAURANT W/ DRIVE-THRU

LOCATION OF SITE  
494 LINCOLN STREET, CITY OF WORCESTER  
WORCESTER COUNTY, MASSACHUSETTS  
MAP 39, BLOCK 29, LOT 1C



Restaurant Support Office  
6800 Bishop Road, Plano, TX 75024  
Tele: 972-769-3100 Fax: 972-769-3101

PROTOTYPE ISSUE DATE: \_\_\_\_\_

**REVISIONS**

REV	DATE	COMMENT	CHECKED BY
1	10/22/2024	REVISED PER CITY COMMENTS	CJP MMA



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**ENTITLEMENT SET**

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PROJECT No.: MAA240136.00  
DRAWN BY: CJP  
CHECKED BY: MMA  
DATE: 10/02/2024  
CAD ID: X-CIV-TTLE

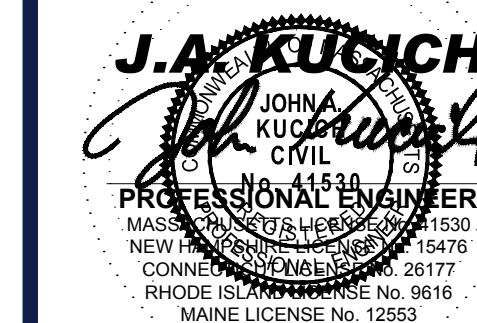
**SITE DEVELOPMENT PLANS**

FOR PROPOSED DEVELOPMENT

MAP: 39 | BLK: 29 | LOT: 1C  
494 LINCOLN STREET  
WORCESTER COUNTY  
WORCESTER, MASSACHUSETTS

STORE: PROTOTYPE 6-V-AV RESTAURANT #RC1233

DESIGNER INFORMATION:  
**BOHLER**  
352 TURNPIKE ROAD, 3rd FLOOR  
SOUTHBOROUGH, MA 01772  
Phone: (508) 480-9900  
[www.BohlerEngineering.com](http://www.BohlerEngineering.com)



SHEET TITLE:  
**COVER SHEET**

SHEET NUMBER:  
**C-101**

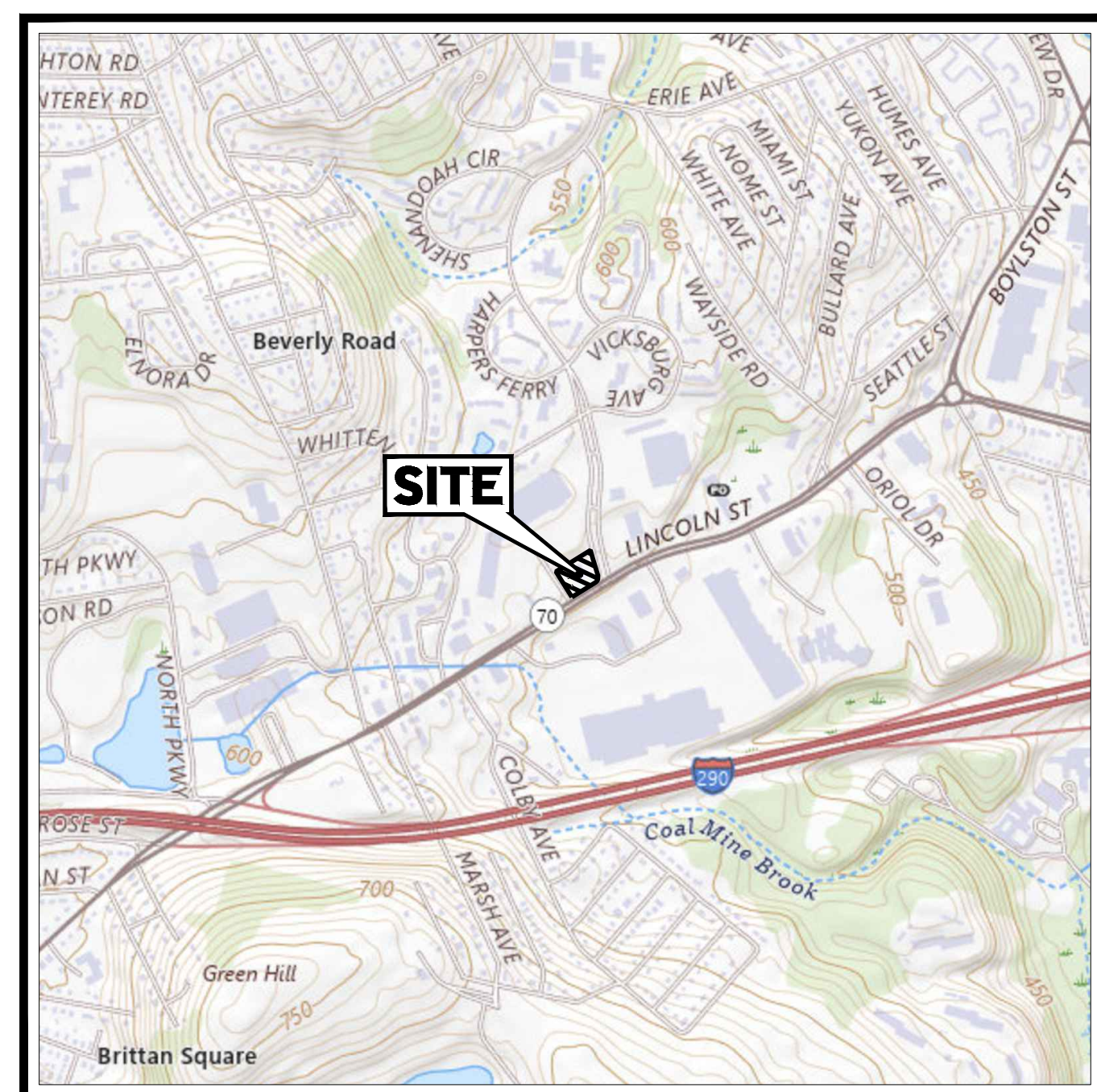
REVISION 1 - 10/22/2024

**REFERENCES AND CONTACTS**

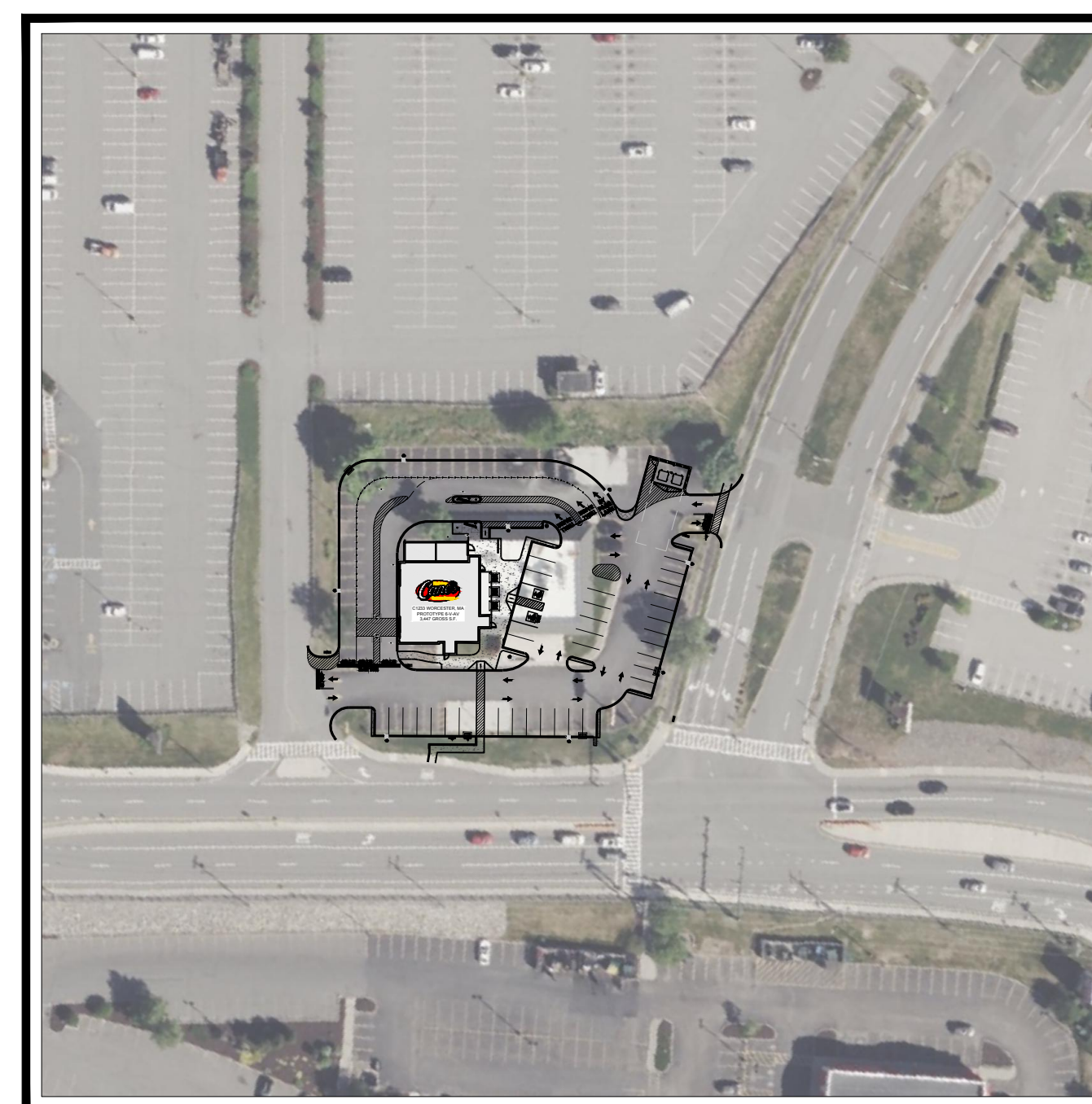
**REFERENCES**

- **BOUNDARY & TOPOGRAPHIC SURVEY:**  
CONTROL POINT ASSOCIATES, INC.  
352 TURNPIKE ROAD  
SOUTHBOROUGH, MA 01772  
DATED: 05/23/24  
JOB #03-240145-00  
ELEVATIONS: NAVD 1988
- **GEOTECHNICAL REPORT:**  
TERRACON CONSULTANTS, INC.  
77 SUNDIAL AVENUE, SUITE 401W  
MANCHESTER, NH 05232/24  
DATED: 07/26/24  
JOB #024049-0
- **PHOTOMETRIC SITE PLAN:**  
ADA ARCHITECTS  
17710 DETROIT AVENUE  
LAKEWOOD, OH 44107  
DATED: 10/01/24

THE ABOVE REFERENCED DOCUMENTS ARE INCORPORATED BY REFERENCE AS PART OF THESE PLANS. HOWEVER, BOHLER ENGINEERING DOES NOT CERTIFY THE ACCURACY OF THE WORK REFERENCED OR DERIVED FROM THESE DOCUMENTS, BY OTHERS.



**USGS MAP**  
SCALE: 1" = 1,000'  
SOURCE: WORCESTER NORTH USGS QUADRANGLE



**AERIAL MAP**  
SCALE: 1" = 100'  
SOURCE: GOOGLE EARTH

**OWNER**

COMMERCIAL NET LEASE REALTY, LP  
450 S ORANGE AVE, SUITE 900  
ORLANDO, FL 32801

**DEVELOPER**

RAISING CANE'S CHICKEN FINGERS  
6800 BISHOP ROAD  
PLANO, TX 75024  
CONTACT: MICHELLE ROBINSON  
(972)-769-3206

PREPARED BY



GENERAL NOTE:  
IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW ALL OF THE DRAWINGS AND SPECIFICATIONS ASSOCIATED WITH THIS PROJECT. WORK SHOULD BE STOPPED IMMEDIATELY IF ANY DISCREPANCIES OR CONFLICTS ARE FOUND. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPLICABLE AGENCIES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE PROJECT ENGINEER OF RECORD IN WRITING PRIOR TO THE START OF CONSTRUCTION. FAILURE BY THE CONTRACTOR TO NOTIFY THE PROJECT ENGINEER SHALL CONSTITUTE ACCEPTANCE OF FULL RESPONSIBILITY BY THE CONTRACTOR TO COMPLETE THE SCOPE OF THE WORK AS DEFINED BY THE DRAWINGS AND IN FULL COMPLIANCE WITH LOCAL, STATE AND FEDERAL CODES.

P:\2024\MAA240136\01\DRAWING\SEPLAN\_BETRICK\CIVIL SITE PLANS\CP-COVER SHEET.dwg LAYOUT: C-101 COVER





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CAD I.D.: X-CIVL-TTLB

PROJECT:

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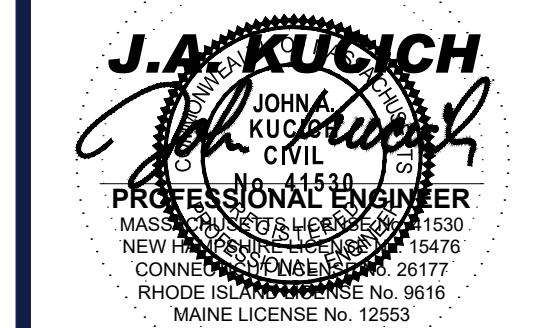
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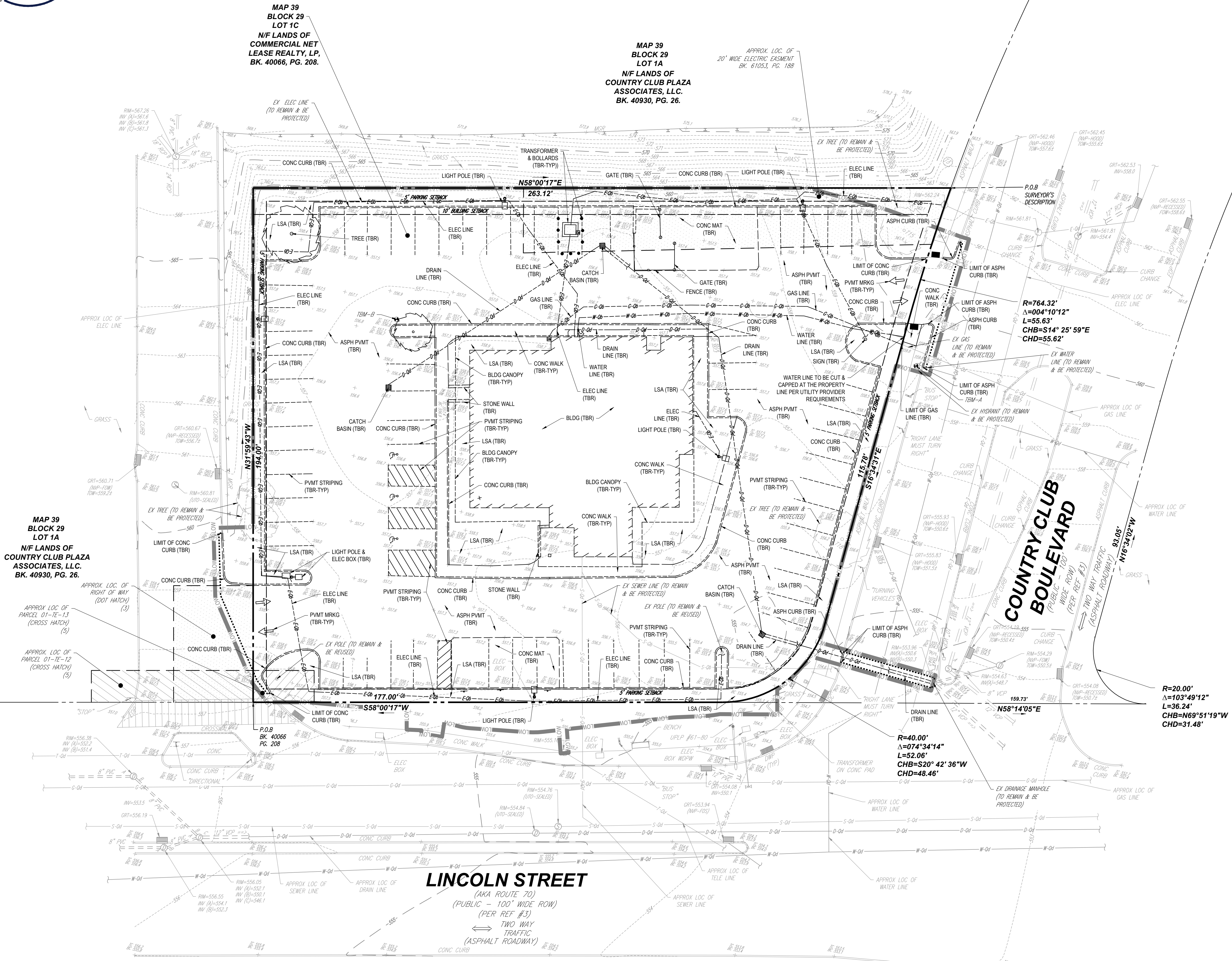
SHEET TITLE:

**EXISTING CONDITIONS/  
DEMOLITION PLAN**

SHEET NUMBER:

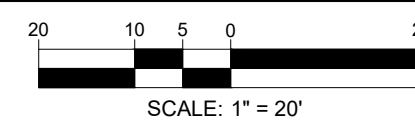
**C-201**

REVISION 1 - 10/22/2024



DEMOLITION ABBREVIATIONS	
ABBREVIATION	DESCRIPTION
(TBA)	TO BE ABANDONED
(TBR)	TO BE REMOVED
(TBV)	TO BE VACATED
(RELO)	TO BE RELOCATED

**THIS PLAN TO BE UTILIZED FOR DEMOLITION PURPOSES ONLY**



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MAP 39  
BLOCK 29  
LOT 1C  
N/F LANDS OF  
COMMERCIAL NET  
LEASE REALTY, LP,  
BK. 40066, PG. 208.

MAP 39  
BLOCK 29  
LOT 1A  
N/F LANDS OF  
COUNTRY CLUB PLAZA  
ASSOCIATES, LLC,  
BK. 40930, PG. 26.

APPROX. LOC. OF  
20' WIDE ELECTRIC EASEMENT  
BK. 61253, PG. 188

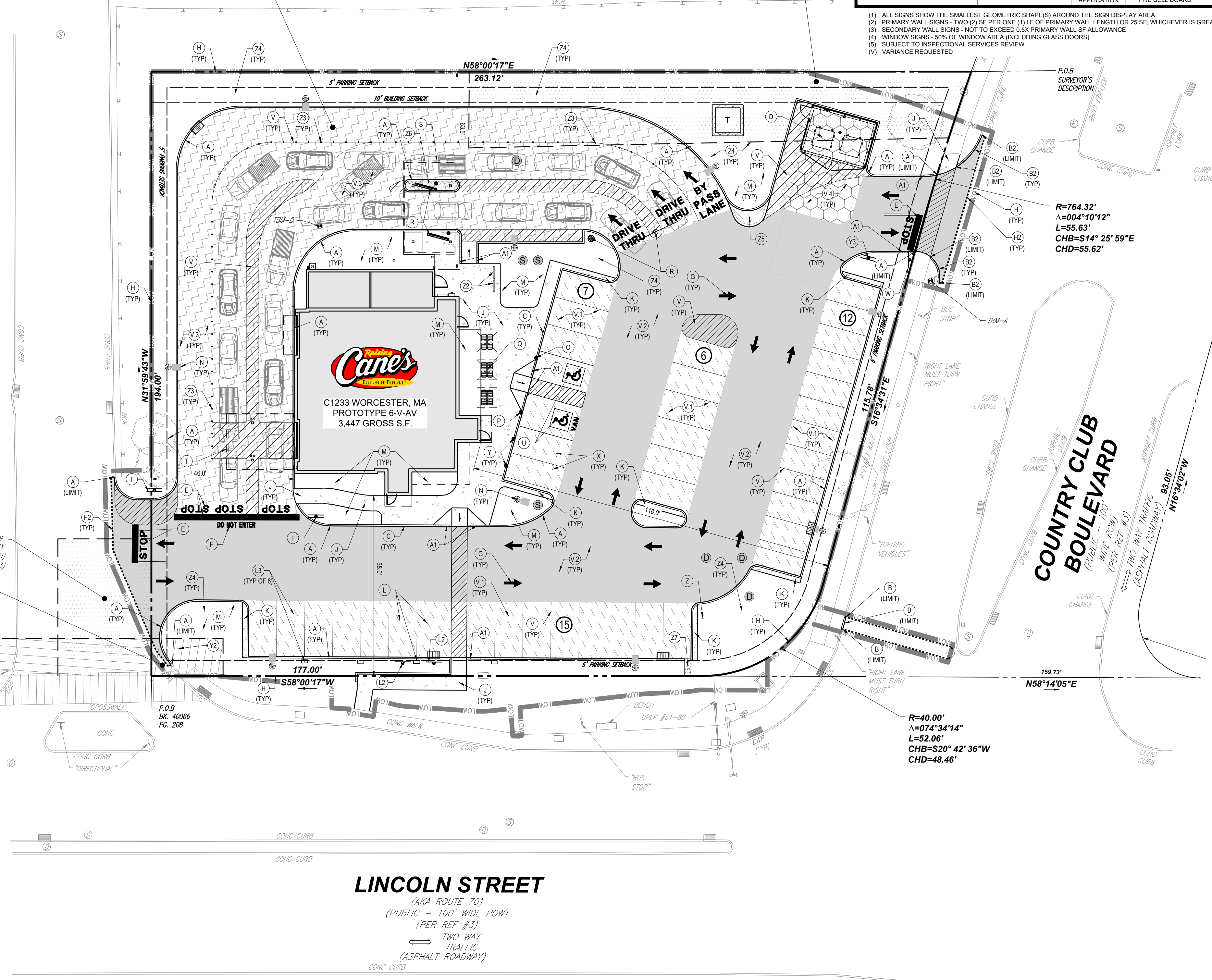
SIGN SUMMARY TABLE			
TYPE	ALLOWED	EXISTING	PROPOSED (1)
BUILDING SIGNAGE			"RAISING CANES" LOGO SIGN 24.14 SF PAINTED MURAL 139.99 SF (V) TOTAL WALL SIGNS 163.64 SF (V)
	SOUTHEAST / FRONT ELEVATION	WALL SIGNS: 120.33 SF (2) WINDOW SIGNS: 199.18 SF (4)	SEE APPLICATION "OPEN" SIGN 2.64 SF
SOUTHWEST / DRIVE THRU ELEVATION			"RAISING CANES" LOGO SIGN 24.14 SF PAINTED ARROW MURAL 82.42 SF TOTAL WALL SIGNS 86.56 SF (V)
	NORTHWEST / REAR ELEVATION	60.17 SF (3)	SEE APPLICATION "RAISING CANES" LOGO SIGN 24.14 SF
NORTHEAST / SIDE ENTRY ELEVATION			"RAISING CANES" LOGO SIGN 24.14 SF RED DOOR ON SUBSTRATE 32.00 SF TOTAL WALL SIGNS 56.14 SF
	NORTHWEST / REAR ELEVATION	WALL SIGNS: 116.83 SF (2) WINDOW SIGNS: 154.07 SF (4)	SEE APPLICATION "CHICKEN FINGERS" NEON SIGN 3.00 SF
TOTAL BUILDING SIGNAGE	N/A	SEE APPLICATION	9 SIGNS @ \$386.12 SF
FREESTANDING SIGNAGE			
PYLON SIGN	64.00 SF	SEE APPLICATION	60.62 SF
DIRECTIONAL SIGN	N/A	SEE APPLICATION	TWO (2) SIGNS @ 6.00 SF EACH
OTHER SIGNAGE			
MENU BOARD SIGN (5)	24.00 SF	SEE APPLICATION	DRIVE-THRU MENU BOARD 21.19 SF PRE SELL BOARD 8.31 SF

- (1) ALL SIGNS SHOW THE SMALLEST GEOMETRIC SHAPE(S) AROUND THE SIGN DISPLAY AREA
- (2) PRIMARY WALL SIGNS - TWO (2) SF PER ONE (1) LF OF PRIMARY WALL LENGTH OR 25 SF, WHICHEVER IS GREATER
- (3) SECONDARY WALL SIGNS - NOT TO EXCEED 0.5X PRIMARY WALL SF ALLOWANCE
- (4) WINDOW SIGNS - 50% OF WINDOW AREA (INCLUDING GLASS DOORS)
- (5) SUBJECT TO INSPECTION SERVICES REVIEW
- (V) VARIANCE REQUESTED

ZONING TABLE				
ZONE: BUSINESS, GENERAL (BG-4.0), WATER RESOURCE PROTECTION DISTRICT (GP-3) USE: FOOD SERVICE (DRIVE-THRU) MAP: 39 BLOCK: 29 LOT: 1C				
APPLICANT/ OWNER INFORMATION				
APPLICANT:		RAISING CANES CHICKEN FINGERS 6900 BISHOP ROAD PLANO, TX 75024		
PROPERTY OWNER:		COMMERCIAL NET LEASE REALTY, LP 450 S ORANGE AVE, SUITE 900 ORLANDO, FL 32801		
BULK REQUIREMENTS				
ITEM	CODE	PERMITTED	EXISTING	PROPOSED
MAX. FLOOR AREA RATIO	§ ART IV, SEC 4	4.0	40.12	40.06
MIN. FRONTAGE	§ ART IV, SEC 4	N/A	177.0' (LINCOLN) 223.5' (COUNTRY CLUB)	NO CHANGE
MIN. FRONT SETBACK	§ ART IV, SEC 4	N/A	N/A	N/A
MIN. SIDE SETBACK	§ ART IV, SEC 4	N/A	N/A	N/A
MIN. REAR SETBACK	§ ART IV, SEC 4	10.0'	56.2'	63.5'
MAX PERMITTED HEIGHT	§ ART IV, SEC 4	150.0'	< 150.0'	< 150.0'
MAX LOT COVERAGE	§ ART IV, SEC 4	N/A	82.9%	78.5%

PARKING REQUIREMENTS				
ITEM	CODE	PERMITTED	EXISTING	PROPOSED
MIN LANDSCAPE BUFFER	§ TBL 4.4, NOTE 5.A.II	5.0'	4.2' (E)	5.0'
MIN NUMBER OF STALLS	§ TBL 4.4	40	61	40
MIN NUMBER OF ACCESSIBLE STALLS	§ 521 CMR	2	2	2
MAX NUMBER OF COMPACT STALLS	§ TBL 4.4, NOTE 3.B	25%	0%	30%
PARKING STALL CRITERIA STANDARD: 9 FT X 18 FT COMPACT: 9 FT X 16 FT	USE/CATEGORY: FAST FOOD / DRIVE-THRU REQUIRED PARKING: ONE (1) PER TWO (2) BUILDING OCCUPANTS + ONE (1) PER 60 SF DRIVE-THRU AREA CALCULATION: (1 SPACE/2 BUILDING OCCUPANTS) X (76 BUILDING OCCUPANTS) = 37.5 SPACES (1 SPACE/60 SF DRIVE-THRU AREA) X (81 SF DRIVE-THRU AREA) = 2.0 SPACES 39.5 SPACES			
ACCESSIBLE PARKING CRITERIA STANDARD: 9 FT X 18 FT STALL (MIN.) 5 FT X 18 FT AISLE (MIN.) VAN: 8 FT X 18 FT STALL (MIN.) 8 FT X 18 FT AISLE (MIN.)	26-50 REQUIRED SPACES = 2 MIN. ACCESSIBLE SPACE 1 ACCESSIBLE VAN SPACE PER 6 STANDARDS ACCESSIBLE SPACES (MIN.)			

KEY =  
(E) - EXISTING  
(N/A) - NOT APPLICABLE  
SPECIAL PERMIT REQUIRED



PAVEMENT LEGEND	
V.1	STANDARD DUTY ASPHALT PAVEMENT REFERENCE PAVEMENT DETAILS
V.2	HEAVY DUTY ASPHALT PAVEMENT REFERENCE PAVEMENT DETAILS
V.3	MEDIUM DUTY CONCRETE PAVEMENT INTEGRAL COLOR 800 GRAPHIC (IRON OXIDE) REFERENCE PAVEMENT DETAILS
V.4	HEAVY DUTY CONCRETE PAVEMENT (DUMPSTER ENCLOSURE) REFER TO CONSTRUCTION DETAILS
J	PROPOSED CONCRETE SIDEWALK PAVEMENT. REFER TO CONSTRUCTION DETAILS.
Z5	PROPOSED MOUNTABLE CONCRETE ISLAND. REFER TO CONSTRUCTION DETAILS.

LEGEND	
A	PROP. PRECAST CONCRETE CURB (REFER TO SHEET C-901 FOR DETAIL).
A1	PROP. PRECAST CONCRETE TRANSITION CURB (REFER TO SHEET C-901 FOR DETAIL).
B	PROP. VERTICAL GRANITE CURB (REFER TO SHEET C-901 FOR DETAIL).
B2	PROP. GRANITE TRANSITION CURB (REFER TO SHEET C-901 FOR DETAIL).
C	PROP. MONOLITHIC CONCRETE CURB (REFER TO CONCRETE SIDEWALK AND LANDSCAPE PROTECTION STRIP DETAIL ON SHEET C-901).
D	PROP. RECYCLING / TRASH DUMPSTER LOCATION (REFER TO ARCH PLANS FOR DETAILS OF SCREENING, GATES, BOLLARDS AND FINISHES).
E	PROP. STOP BAR AND "STOP" PAVEMENT MARKING (REFER TO SHEET C-901 FOR DETAIL).
F	PROP. "DO NOT ENTER" PAVEMENT MARKINGS
G	PROP. DIRECTIONAL PAVEMENT MARKING (REFER TO SHEET C-903 FOR DETAIL).
H	PROP. LIMIT OF WORK LINE
H2	PROP. LIMIT OF PAVEMENT SAWCUT LINE
I	PROP. STOP AND DO NOT ENTER SIGN (REFER TO SHEET C-901 FOR DETAIL).
J	PROP. CONCRETE SIDEWALK (REFER TO SHEET C-901 FOR DETAIL).
K	PROP. CONCRETE LANDSCAPE PROTECTION STRIP (REFER TO SHEET C-902 FOR DETAIL).
L	PROP. LOCATION OF EV READY PARKING SPACE AND ASSOCIATED EQUIPMENT. REFER TO UTILITY PLAN (SHEET C-501).
L2	PROP. EV ONLY PARKING SIGN (REFER TO SHEET C-901 FOR DETAIL).
L3	PROP. LOCATION OF FUTURE EV PARKING SPACE AND ASSOCIATED EQUIPMENT. REFER TO UTILITY PLAN (SHEET C-501).
M	PROP. LANDSCAPE AREA. (REFER TO SHEET L-101 FOR DETAILS).
N	PROP. SITE LIGHTING. REFER TO LIGHTING PLANS BY OTHERS FOR DETAILS.
O	PROP. ACCESSIBLE PARKING SIGN IN BOLLARD (REFER TO SHEET C-901 FOR DETAIL).
P	PROP. VAN ACCESSIBLE PARKING SIGN IN BOLLARD (REFER TO SHEET C-901 FOR DETAIL).
Q	PROP. CONCRETE PATIO WITH CANOPY AND OUTDOOR SEATING (REFER TO ARCH PLANS FOR DETAILS).
R	PROP. DRIVE-THRU ORDER BOARD, PRE-ORDER OR HEIGHT DETECTOR (REFER TO ARCH PLANS FOR DETAILS).
S	PROP. ORDER BOARD CANOPY (REFER TO ARCH PLANS FOR DETAILS).
T	PROP. PICKUP CANOPY (REFER TO ARCH PLANS FOR DETAILS).
U	PROP. ACCESSIBLE PARKING SPACES AND STRIPING (REFER TO SHEET C-901 FOR DETAIL).
V	PROP. PAVEMENT STRIPING (REFER TO ARCH PLANS FOR DETAILS).
W	PROP. STOP SIGN (REFER TO SHEET C-901 FOR DETAIL).
X	PROP. MOBILE ORDER PICK-UP PARKING SPACES (TYP. OF 2)
Y	PROP. MOBILE ORDER PICK-UP SIGNS IN BOLLARD (TYP. OF 2). REFER TO SHEET C-902 FOR DETAIL.
Y2	EXIST. DIRECTIONAL SIGN RE-USED FOR PROP. DIRECTIONAL SIGN (REFER TO RAISING CANES BRAND BOOK FOR DETAILS).
Z	PROP. DIRECTIONAL SIGN (REFER TO RAISING CANES BRAND BOOK FOR DETAILS).
Z3	EXIST. PYLON SIGN RE-USED FOR PROP. INTERNALLY ILLUMINATED PYLON SIGN (REFER TO RAISING CANES BRAND BOOK FOR DETAILS).
Z2	PROP. BIKE RACKS
Z3	PROP. YELLOW 36" HIGH FLEXIBLE DELINEATORS PLACED 4' O.C. (REFER TO SHEET C-903 FOR DETAIL).
Z4	PROP. SNOW STORAGE AREA
Z5	PROP. MOUNTABLE CONCRETE ISLAND (REFER TO SHEET C-902 FOR DETAIL).
Z6	PROP. DRIVE-THRU MEDIAN ISLAND PAVERS (REFER TO SHEET C-903 FOR DETAIL).
Z7	PROP. RIP-RAP SWALE (REFER TO SHEET C-401 AND C-903 FOR DETAILS).



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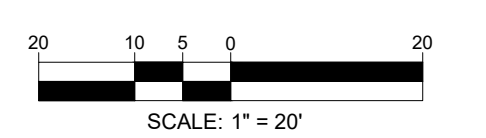
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JOHN A. KUCICH  
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MASS. REG. NO. 15130  
NEW HAVEN, CT 06511  
CONV. NO. 15476  
RHODE ISLAND LICENSE NO. 0616  
MAINE LICENSE NO. 12553

SHEET TITLE:  
**SITE PLAN**  
SHEET NUMBER:  
**C-301**  
REVISION 1 - 10/22/2024

**MAINTENANCE OF A CLEAR SIGHT LINE IS THE RESPONSIBILITY OF THE PROPERTY OWNER**  
**THIS PLAN TO BE UTILIZED FOR SITE LAYOUT PURPOSES ONLY**



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MAP 39  
BLOCK 29  
LOT 1C  
N/F LANDS OF  
COMMERCIAL NET  
LEASE REALTY, LP,  
BK. 40066, PG. 208.

MAP 39  
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N/F LANDS OF  
COUNTRY CLUB PLAZA  
ASSOCIATES, LLC.  
BK. 40930, PG. 26.

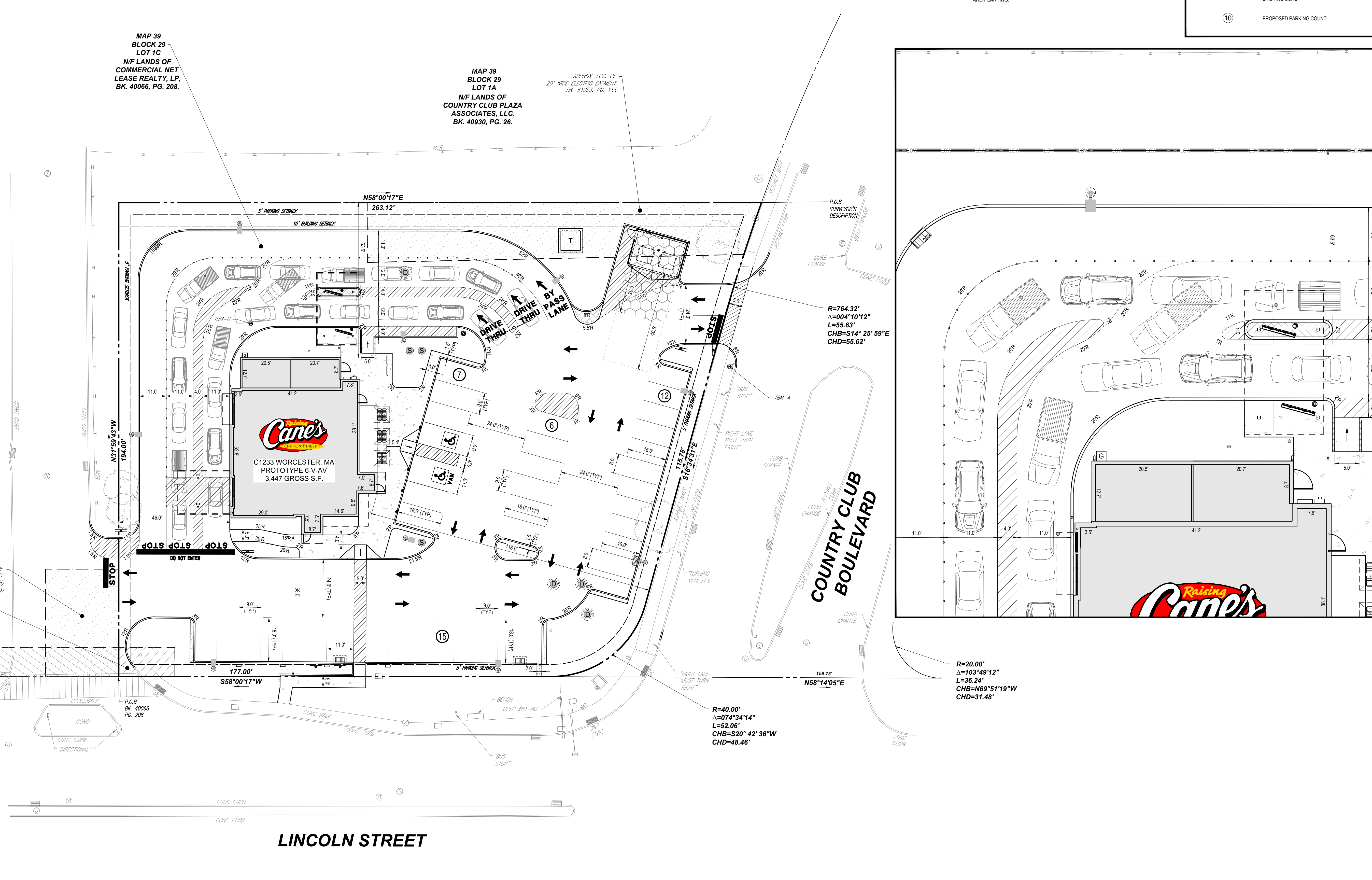
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APPROX. LOC. OF  
RIGHT OF WAY  
(DOT HATCH) (3)

APPROX. LOC. OF  
PARCEL 01-1E-13  
(CROSS HATCH) (3)

APPROX. LOC. OF  
PARCEL 01-1E-12  
(CROSS HATCH) (3)



- DIMENSION NOTES**
1. ALL CURB RADI ARE TO BE 10' AND 2' UNLESS OTHERWISE NOTED.
  2. ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
  3. ALL CURBS SHALL BE 6" STANDARD EXCEPT WHERE OTHERWISE NOTED ON PLANS.
  4. REFERENCE LANDSCAPE PLANS FOR PROPOSED BUFFERS, SCREENING AND PLANTING.

**LEGEND**

	PROPERTY LINE
	EXISTING EASEMENT
	PROPOSED EASEMENT
	PROPOSED CONCRETE CURB
	EXISTING CURB
	PROPOSED PARKING COUNT



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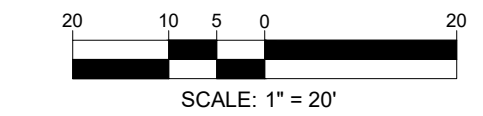
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CONNECTICUT REG. NO. 91177  
RHODE ISLAND REG. NO. 0616  
MAINE LICENSE NO. 12553

SHEET TITLE:  
**DIMENSION CONTROL PLAN**  
SHEET NUMBER:  
**C-302**  
REVISION 1 - 10/22/2024

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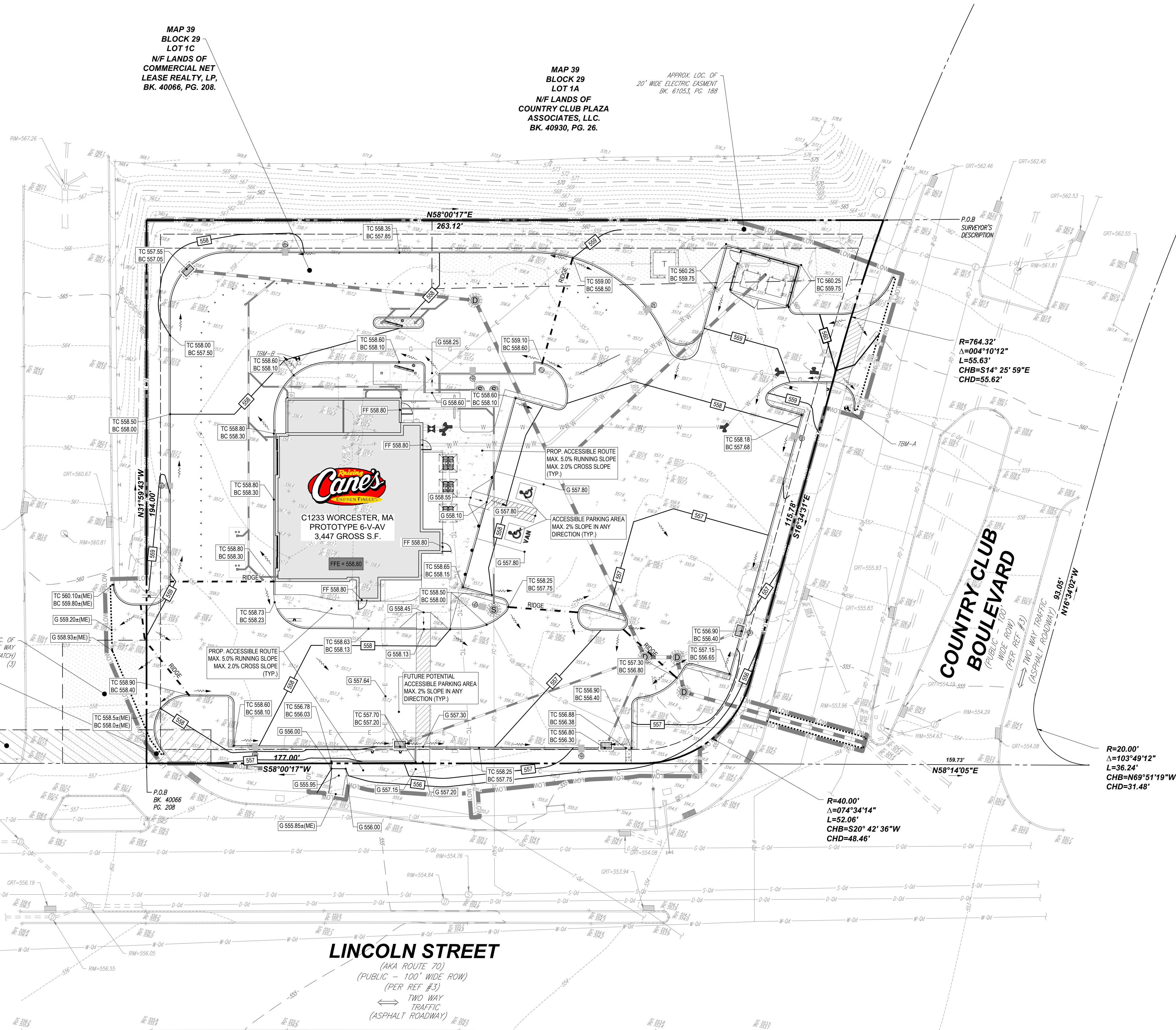
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APPROX. LOC. OF  
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(CROSS HATCH) (#3)

APPROX. LOC. OF  
PARCEL 01-T1-L12  
(CROSS HATCH) (#3)



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PROJECT No.: MAA240136.00  
DRAWN BY: CJP  
CHECKED BY: MMA  
DATE: 10/02/2024  
CAD I.D.: X-CIVL-TTLB

PROJECT:  
**SITE DEVELOPMENT PLANS**

FOR  
**PROPOSED DEVELOPMENT**  
MAP: 39 | BLK: 29 | LOT: 1C  
494 LINCOLN STREET  
WORCESTER COUNTY  
WORCESTER, MASSACHUSETTS

STORE:  
PROTOTYPE 6-V-AV  
RESTAURANT #RC1233

DESIGNER INFORMATION:

**BOHLER** //

352 TURNPIKE ROAD, 3rd FLOOR  
SOUTHBOROUGH, MA 01772  
Phone: (508) 480-9900

www.BohlerEngineering.com

**J.A. KUCICH**  
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PROFESSIONAL ENGINEER  
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NEW HAVEN, CT REG. PROFESSIONAL ENGINEER #15476  
COMM. REG. PROFESSIONAL ENGINEER #19177  
RHODE ISLAND LICENSE No. 0616  
MAINE LICENSE No. 12553

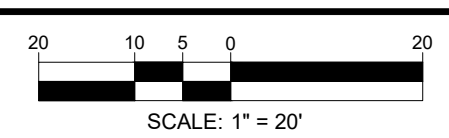
SHEET TITLE:

**GRADING PLAN**

SHEET NUMBER:  
**C-401**

REVISION 1 - 10/22/2024

THIS PLAN TO BE UTILIZED FOR SITE GRADING PURPOSES ONLY



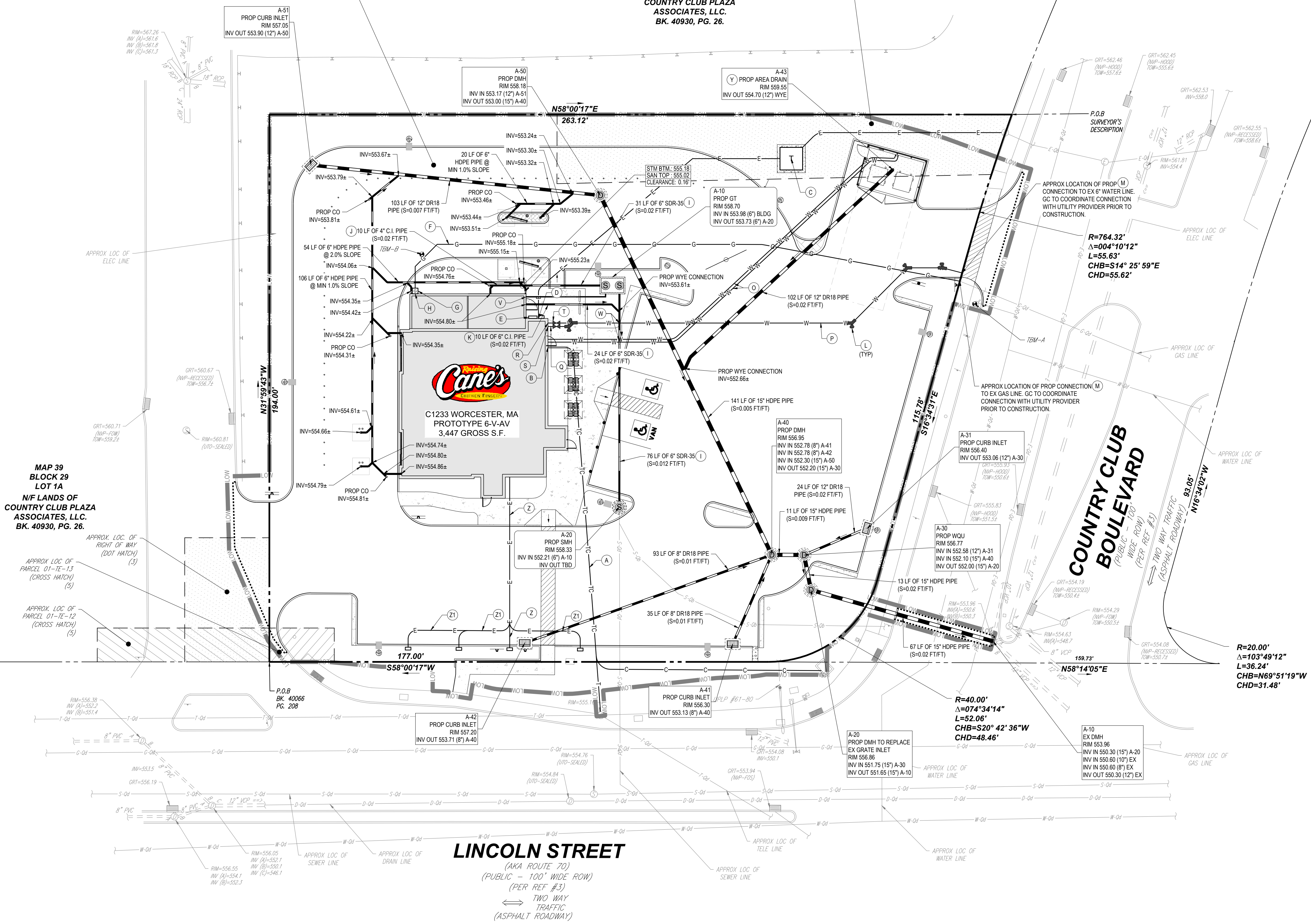
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MAP 39  
BLOCK 29  
LOT 1C  
N/F LANDS OF  
COMMERCIAL NET  
LEASE REALTY, LP,  
BK. 40066, PG. 208.

MAP 39  
BLOCK 29  
LOT 1A  
N/F LANDS OF  
COUNTRY CLUB PLAZA  
ASSOCIATES, LLC,  
BK. 40930, PG. 26.

APPROX. LOC. OF  
20' WIDE ELECTRIC EASEMENT  
BK. 61053, PG. 188



LEGEND	
PROPOSED	
UTILITY POLE	—●—
SANITARY LATERAL	—S—
SANITARY MAIN	—S—
WATER LINE	—W—
ELECTRIC LINE	—E—
GAS LINE	—G—
OVERHEAD WIRE	—O—
STORM SEWER	—SS—
HYDRANT	—H—
SANITARY MANHOLE	—SM—
STORM MANHOLE	—SM—
WATER VALVE	—V—
WATER METER	—WM—
GAS VALVE	—GV—
TYPICAL END SECTION	—E—
ENDWALL	—E—
GRATE INLET	—GI—
CURB INLET	—CI—
CLEANOUT	—C—

UTILITY KEYNOTE LEGEND	
(A)	INSTALL 4" PVC CONDUIT FOR TELEPHONE AND 3" PVC CONDUIT FOR INTERNET.
(B)	PROP. TELEPHONE AND INTERNET ENTRY. REFERENCE ARCHITECTURAL PLANS FOR CONTINUATION.
(C)	PROP. TRANSFORMER MOUNTED ON CONCRETE PAD. GC TO COORDINATE BOLLARD PROTECTION AND INSTALLATION WITH UTILITY PROVIDER. REFERENCE TO MEP PLANS FOR CONTINUATION.
(D)	PROP. ELECTRIC SERVICE ENTRY WITH METER. REFERENCE ARCHITECTURAL / MEP PLANS FOR CONTINUATION.
(E)	PROP. ELECTRIC SWITCHGEAR. REFERENCE ARCHITECTURAL / MEP PLANS.
(F)	PROP. GAS SERVICE LINE. REFER TO MEP FOR SIZE.
(G)	APPROX. LOCATION OF PROP. GAS METER. REFER TO MEP PLANS FOR CONTINUATION.
(H)	PROP. GAS ENTRY. REFERENCE PLUMBING PLANS FOR CONTINUATION.
(I)	PROP. 6" SDR-35 SANITARY SEWER PIPE
(J)	PROP. 4" CAST IRON PIPE FOR FIRST 10' FROM BUILDING
(K)	PROP. 6" CAST IRON PIPE FOR FIRST 10' FROM BUILDING
(L)	PROP. THRUST BLOCK. REFER TO SHEET C-903 FOR DETAIL.
(M)	APPROX. LOCATION OF EXISTING 6" WATER SERVICE. FINAL LOCATION TO BE CONFIRMED PRIOR TO CONSTRUCTION. GC TO COORDINATE WITH UTILITY PROVIDER.
(O)	TWO (2) PROP. 1" COPPER DOMESTIC WATER LINES (HOT & COLD) CONNECTING TO TRASH ENCLOSURE
(P)	PROP. 6" DIA. CLDI WATER SERVICE.
(Q)	PROP. 2" DIA. TYPE K COPPER WATER SERVICE
(R)	PROP. 6" WATER ENTRY WITH CURB STOP. REFERENCE MEP PLANS FOR CONTINUATION.
(S)	PROP. 2" DOMESTIC WATER ENTRY WITH CURB STOP. REFERENCE MEP PLANS FOR CONTINUATION.
(T)	PROP. WATER SHUT-OFF VALVE
(U)	PROP. FIRE DEPARTMENT WATER SERVICE CONNECTION. REFERENCE MEP PLANS FOR CONTINUATION.
(V)	APPROX. LOCATION OF 3" VENT LINE TO GREASE TRAP. REFERENCE MEP PLANS FOR CONTINUATION.
(W)	PROP. CONCRETE ENCASING. REFER TO SHEET C-903 FOR DETAIL.
(X)	APPROX. LOCATION OF EXISTING GAS SERVICE. FINAL LOCATION TO BE CONFIRMED PRIOR TO CONSTRUCTION. GC TO COORDINATE WITH UTILITY PROVIDER.
(Y)	PROP. AREA DRAIN. REFERENCE ARCHITECTURAL / MEP PLANS.
(Z)	PROP. ELECTRIC SERVICE FOR EV CHARGING STATIONS. REFERENCE MEP PLANS FOR CONTINUATION.
(Z1)	PROP. FUTURE ELECTRIC SERVICE FOR EV CHARGING STATIONS. REFERENCE MEP PLANS FOR CONTINUATION.

Restaurant Support Office  
6800 Bishop Road, Plano, TX 75024  
Tele: 972-769-3100 Fax: 972-769-3101

PROTOTYPE ISSUE DATE:

REVISIONS				
REV	DATE	COMMENT	REVISOR	CHECKED BY
1	10/22/2024	REVISED PER CITY COMMENTS	CJP	MMA

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PROJECT No.: MAA240136.00  
DRAWN BY: CJP  
CHECKED BY: MMA  
DATE: 10/03/2024  
CAD LID: X-CIVL-TTLB

PROJECT:  
**SITE DEVELOPMENT PLANS**

FOR  
**PROPOSED DEVELOPMENT**

MAP: 39 | BLK: 29 | LOT: 1C  
494 LINCOLN STREET  
WORCESTER COUNTY  
WORCESTER, MASSACHUSETTS

STORE:  
PROTOTYPE 6-V-AV  
RESTAURANT #RC1233

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NEW HAVEN, CT. REG. NO. 15476  
CONN. REG. NO. 19177  
RHODE ISLAND REG. NO. 0616  
MAINE LICENSE NO. 12553

SHEET TITLE:  
**UTILITY & DRAINAGE PLAN**

SHEET NUMBER:  
**C-501**

REVISION 1 - 10/22/2024

**THIS PLAN TO BE UTILIZED FOR UTILITIES PURPOSES ONLY**

SCALE: 1" = 20'

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MAP 39  
BLOCK 29  
LOT 1C  
N/F LANDS OF  
COMMERCIAL NET  
LEASE REALTY, LP,  
BK. 40066, PG. 208.

MAP 39  
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MAP 39  
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**LEGEND**

- PROPERTY LINE
- - - - - EXISTING CONTOUR
- APPROXIMATE LIMIT OF DISTURBANCE
- SF SILT FENCE
- CS COMPOST FILTER SOCK
- CE CONSTRUCTION ENTRANCE
- IP PROPOSED GRATE INLET PROTECTION. SEE DETAIL SHEET.
- TP TREE PROTECTION
- CW CONCRETE WASHOUT
- ST MATERIALS AND WASTE STORAGE AREA.



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Tele: 972-769-3100 Fax: 972-769-3101

PROTOTYPE ISSUE DATE:

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1	10/22/2024	REVISED PER CITY COMMENTS	CJP MMA

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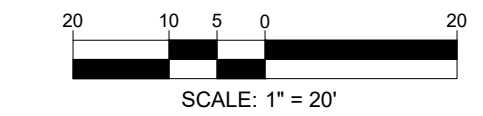
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MASS. REG. NO. 15130  
NEW HAMPSHIRE REG. NO. 15476  
CONNECTICUT REG. NO. 91177  
RHODE ISLAND REG. NO. 9616  
MAINE LICENSE NO. 12553

**SOIL EROSION AND SEDIMENT CONTROL PLAN**

SHEET NUMBER:  
**C-801**

REVISION 1 - 10/22/2024

**THIS PLAN TO BE UTILIZED FOR SOIL EROSION AND SEDIMENT CONTROL PURPOSES ONLY**



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# MASSACHUSETTS EROSION AND SEDIMENT CONTROL NOTES

- ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE DONE AS SET FORTH IN THE MOST CURRENT STATE SEDIMENT AND EROSION CONTROL MANUAL.
- THOSE AREAS UNDERGOING ACTUAL CONSTRUCTION WILL BE LEFT IN AN UNTREATED OR UNVEGETATED CONDITION FOR A MINIMUM TIME. AREAS SHALL BE PERMANENTLY STABILIZED IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REQUIREMENTS. AT A MINIMUM, AREAS SHALL BE PERMANENTLY STABILIZED ACCORDING TO THE CURRENT EDITION OF THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP), OR IN THE ABSENCE OF A SWPPP, THEY SHALL BE PERMANENTLY STABILIZED WITHIN 14 DAYS OF FINAL GRADING AND TEMPORARILY STABILIZED WITHIN 30 DAYS OF INITIAL DISTURBANCE OF THE SOIL. IF THE DISTURBANCE IS WITHIN 100 FEET OF A STREAM OR POND, THE AREA SHALL BE STABILIZED WITHIN 7 DAYS OR PRIOR TO ANY STORM EVENT (THIS WOULD INCLUDE WETLANDS).
- SEDIMENT BARRIERS (SILT FENCE, STRAW BARRIERS, ETC.) SHOULD BE INSTALLED PRIOR TO ANY SOIL DISTURBANCE OF THE CONTRIBUTING DRAINAGE AREA ABOVE THEM. MULCH NETTING SHALL BE USED TO ANCHOR MULCH IN ALL AREAS WITH SLOPES GREATER THAN 8%.
- INSTALL SILTATION BARRIER AT TOE OF SLOPE TO FILTER SILT FROM RUNOFF. SEE SILTATION BARRIER DETAILS FOR PROPER INSTALLATION. SILTATION BARRIER WILL REMAIN IN PLACE PER NOTE #5.
- ALL EROSION CONTROL STRUCTURES WILL BE INSPECTED, REPLACED AND/OR REPAIRED EVERY 7 DAYS AND IMMEDIATELY FOLLOWING ANY SIGNIFICANT RAINFALL OR SNOW MELT OR WHEN NO LONGER SERVICEABLE DUE TO SEDIMENT ACCUMULATION OR DECOMPOSITION. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE HALF THE HEIGHT OF THE BARRIER. SEDIMENT CONTROL DEVICES SHALL REMAIN IN PLACE AND BE MAINTAINED BY THE CONTRACTOR UNTIL AREAS UPSLOPE ARE PERMANENTLY STABILIZED. FOR SEDIMENT CONTROL DEVICES THAT ARE WITHIN AREAS SUBJECT TO CONSERVATION COMMISSION JURISDICTION, THE DEVICES SHALL REMAIN IN PLACE AND BE REMOVED IN ACCORDANCE WITH THE ORDER OF CONDITIONS.
- NO SLOPES, EITHER PERMANENT OR TEMPORARY, SHALL BE STEEPER THAN TWO TO ONE (2:1) UNLESS OTHERWISE INDICATED ON THE PLANS. SLOPE PROTECTION FOR SLOPES GREATER THAN 2:1 SHALL BE DESIGNED BY A GEOTECHNICAL ENGINEER.
- IF FINAL SEEDING OF THE DISTURBED AREAS IS NOT COMPLETED 45 DAYS PRIOR TO THE FIRST KILLING FROST, USE TEMPORARY MULCH (DORMANT SEEDING MAY BE ATTEMPTED AS WELL) TO PROTECT THE SITE AND DELAY SEEDING UNTIL THE NEXT RECOMMENDED SEEDING PERIOD.
- TEMPORARY SEEDING OF DISTURBED AREAS THAT HAVE NOT BEEN FINAL GRADED SHALL BE COMPLETED 45 DAYS PRIOR TO THE FIRST KILLING FROST TO PROTECT FROM SPRING RUNOFF PROBLEMS.
- DURING THE CONSTRUCTION PHASE, INTERCEPTED SEDIMENT SHALL BE REMOVED AND DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL STANDARDS.
- REVEGETATION MEASURES WILL COMMENCE UPON COMPLETION OF CONSTRUCTION EXCEPT AS NOTED ABOVE. ALL DISTURBED AREAS NOT OTHERWISE STABILIZED WILL BE GRADED, SMOOTHED, AND PREPARED FOR FINAL SEEDING AS FOLLOWS:
  - SIX INCHES, OR DEPTH SPECIFIED ON THE LANDSCAPE PLAN, OF LOAM WILL BE SPREAD OVER DISTURBED AREAS AND SMOOTHED TO A UNIFORM SURFACE.
  - APPLY LIMESTONE AND FERTILIZER ACCORDING TO SOIL TEST. IF SOIL TESTING IS NOT FEASIBLE ON SMALL OR VARIABLE SITES, OR WHERE TIMING IS CRITICAL, FERTILIZER MAY BE APPLIED AT THE RATE OF 800 LB PER ACRE OR 18.4 LB PER 1,000 SF USING 10-20-20 OR EQUIVALENT. APPLY 1/2 TON OF FINE-GRAINED LIMESTONE (EQUIVALENT TO 5% CALCIUM PLUS MAGNESIUM OXIDE) AT A RATE OF 3 TONS PER ACRE (138 LB PER 1,000 SF).
  - FOLLOWING SEED BED PREPARATION, DITCHES AND BACK SLOPES WILL BE SEEDED TO A MIXTURE OF 47% CREEPING RED FESCUE, 5% REDTOP, AND 48% TALL FESCUE. THE LAWN AREAS WILL BE SEEDED TO A PREMIUM TURF MIXTURE OF 44% KENTUCKY BLUEGRASS, 44% CREEPING RED FESCUE, AND 12% PERENNIAL RYEGRASS. SEEDING RATE IS 1.03 LBS PER 1,000 SF LAWN. QUALITY SOD MAY BE SUBSTITUTED FOR SEED WHERE SLOPES DO NOT EXCEED 2:1. SOD ON SLOPES STEEPER THAN 3:1 SHOULD BE PEGGED.
  - STRAW MULCH AT THE RATE OF 70-80 LBS PER 1,000 SF. A HYDRO-APPLICATION OF WOOD OR PAPER FIBER SHALL BE APPLIED FOLLOWING SEEDING. A SUITABLE NON-TOXIC BINDER WILL BE USED ON STRAW MULCH FOR WIND CONTROL.
- ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED ONCE THE SITE IS 70% STABILIZED. FOR EROSION CONTROL MEASURES THAT ARE WITHIN AREAS SUBJECT TO CONSERVATION COMMISSION JURISDICTION, THE MEASURES SHALL REMAIN IN PLACE AND BE REMOVED IN ACCORDANCE WITH THE ORDER OF CONDITIONS.
- WETLANDS WILL BE PROTECTED WITH BARRIERS CONSISTING OF STRAW BALES, COMPOST TUBES, SILT FENCE OR A COMBINATION THEREOF.
- ALL AREAS WITHIN 100 FEET OF A FLAGGED WETLAND OR STREAM SHALL HAVE AN EXPOSURE WINDOW OF NOT MORE THAN 7 DAYS.
- ALL AREAS WITHIN 100 FEET OF A FLAGGED WETLAND OR STREAM SHALL FOLLOW APPROPRIATE EROSION CONTROL MEASURES PRIOR TO EACH STORM IF NOT BEING ACTIVELY WORKED:

LOCATION PROTECTED AREA	MULCH STRAW	MULCH RATE (1000 SF)
WINDY AREA	SHREDDED OR CHOPPED CORNSTALKS STRAW (ANCHORED)*	185-275 POUNDS 100 POUNDS
MODERATE TO HIGH VELOCITY AREAS OR STEEP SLOPES GREATER THAN 3:1	JUTE MESH OR EXCELISOR MAT	AS REQUIRED

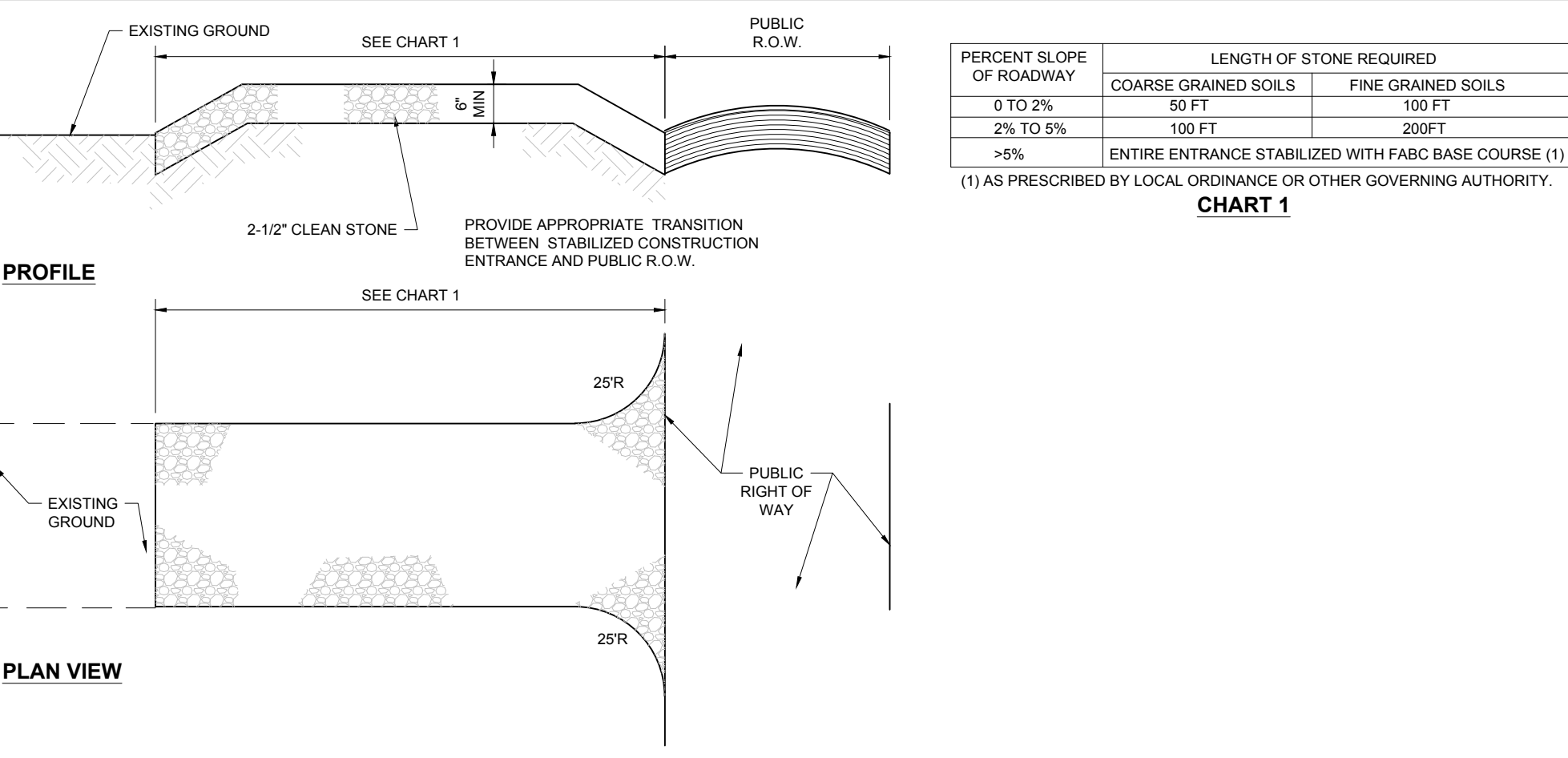
\* A HYDRO-APPLICATION OF WOOD OR PAPER FIBER MAY BE APPLIED FOLLOWING SEEDING. A SUITABLE NON-TOXIC BINDER SHALL BE USED TO ADDITIONAL WIND CONTROL.

\* MULCH ANCHORING - ANCHOR MULCH WITH PEG AND TWINE (1 SQ. YD/BLOCK); MULCH NETTING (AS PER MANUFACTURER); WOOD CELLULOSE FIBER (750 LBS/ACRE); CHEMICAL TACK (AS PER MANUFACTURER'S SPECIFICATIONS); USE OF A SERRATED STRAIGHT DISK WEETING FOR SMALL AREAS AND ROAD DITCHES MAY BE PERMITTED.

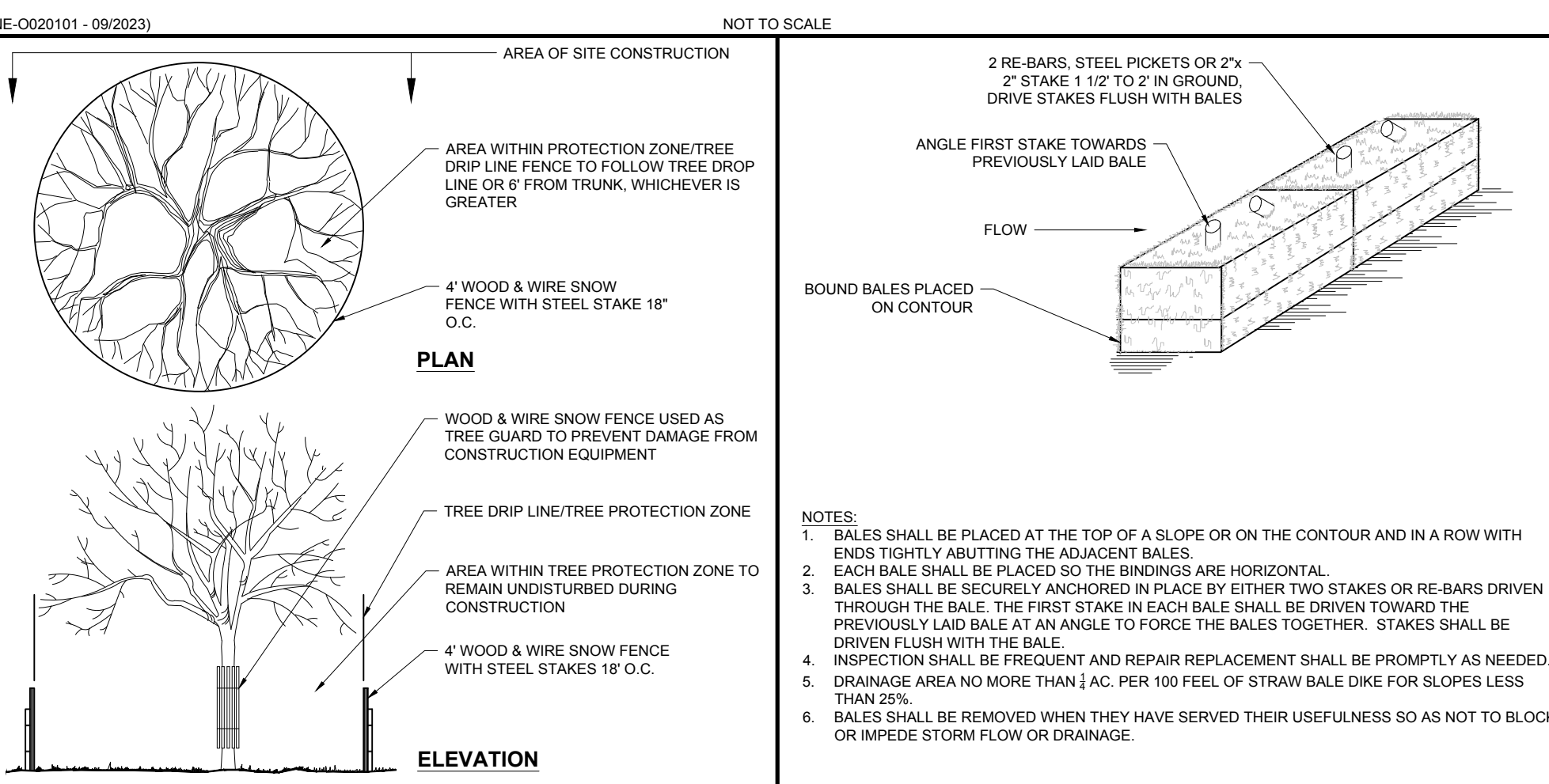
- PROPOSED LOCATIONS OF SURFACE STORMWATER MANAGEMENT BASINS CAN BE UTILIZED AS A TEMPORARY SEDIMENT TRAP DURING CONSTRUCTION. SEDIMENT TRAPS SHALL BE SIZED AND CONSTRUCTED IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REQUIREMENTS.
  - TEMPORARY SEDIMENT TRAPS SHALL BE SIZED PER THE CURRENT EDITION OF THE "MASSACHUSETTS EROSION AND SEDIMENT CONTROL GUIDELINES FOR URBAN AND SUBURBAN AREAS" AND PROVIDE A MINIMUM OF 1,800 CF PER ACRE OF TRIBUTARY AREA WITH A MAXIMUM TRIBUTARY AREA OF 5 ACRES, MAINTAIN A 2:1 LENGTH TO WIDTH RATIO, AND NOT EXCEED 5 FT IN HEIGHT. UPON SITE STABILIZATION, ACCUMULATED SEDIMENT SHALL BE REMOVED AND THE TEMPORARY SEDIMENT TRAP EXCAVATED TO 1 FOOT BELOW THE TRAP. THE AREA SHALL THEN BE SCARIFIED TO PREVENT COMPACTION AND PROMOTE INFILTRATION, AND GRADED AND STABILIZED IN ACCORDANCE WITH THE GRADING AND LANDSCAPE PLANS.
- STOCKPILING OF MATERIALS (DIRT, WOOD, CONSTRUCTION MATERIALS, ETC.) MUST REMAIN COVERED AT ALL TIMES TO MINIMIZE ANY DUST PROBLEMS THAT MAY OCCUR WITH ADJACENT PROPERTIES AND TO PROVIDE MAXIMUM PROTECTION AGAINST EROSION RUNOFF.
- EXISTING CATCH BASIN STRUCTURES SHALL BE PROTECTED UNTIL SUCH TIME AS THEY ARE REMOVED.
- THE CONTRACTOR MUST PERFORM DOWATERING (IF REQUIRED), IN ACCORDANCE WITH STATE AND LOCAL REGULATIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN AND PAY FOR THE COSTS ASSOCIATED WITH ANY AND ALL NECESSARY DISCHARGE PERMITS ASSOCIATED WITH SAME.
- THE CONTRACTOR MUST LOCATE CONSTRUCTION WASTE MATERIAL STORAGE AREAS TO MINIMIZE EXPOSURE TO STORMWATER. THE CONTRACTOR MUST IMMEDIATELY PLACE CONSTRUCTION WASTE IN ON-SITE STORAGE CONTAINERS UNTIL THAT CONSTRUCTION WASTE IS READY FOR OFF-SITE DISPOSAL. THE CONTRACTOR MUST MAINTAIN SPILL PREVENTION AND RESPONSE EQUIPMENT AND MAKE SAME CONTINUOUSLY AVAILABLE ON-SITE FOR USE BY THE CONTRACTOR'S EMPLOYEES WHO MUST BE PROPERLY TRAINED IN THE APPLICATION OF SPILL PREVENTION AND RESPONSE PROCEDURES.
- EROSION CONTROL NOTES DURING WINTER CONSTRUCTION:
  - WINTER CONSTRUCTION PERIOD: NOVEMBER 1 THROUGH APRIL 15.
  - WINTER EXCAVATION AND EARTHWORK SHALL BE DONE SUCH THAT THE AMOUNT OF AREA OPEN AT ONE TIME IS MINIMIZED TO THE MAXIMUM EXTENT PRACTICABLE AND IN CONFORMANCE WITH THE STORMWATER POLLUTION PREVENTION PLAN SUCH THAT ADEQUATE PROVISIONS ARE EMPLOYED TO CONTROL STORMWATER RUNOFF.
  - CONTINUATION OF EARTHWORK OPERATION ON ADDITIONAL AREAS SHALL NOT BEGIN UNTIL THE EXPOSED SOIL SURFACE ON THE AREA BEING WORKED HAS BEEN STABILIZED SUCH THAT NO LARGER AREA OF THE SITE IS WITHOUT EROSION CONTROL PROTECTION AS LISTED IN ITEM 2 ABOVE.
  - AN AREA SHALL BE CONSIDERED TO HAVE BEEN TEMPORARILY STABILIZED WHEN EXPOSED SURFACES HAVE BEEN EITHER MULCHED WITH STRAW OR STRAW AT A RATE OF 100 LB PER 1,000 SQUARE FEET (WITH OR WITHOUT SEEDING) OR DORMANT SEED, MULCHED AND ADEQUATELY ANCHORED BY AN APPROVED ANCHORING TECHNIQUE.
- FOR AREAS WHERE CONSTRUCTION ACTIVITIES HAVE CEASED FOR A PERIOD EXCEEDING 14 DAYS BETWEEN THE DATES OF NOVEMBER 1ST AND APRIL 15TH, SOIL OR SEED WILL NOT BE REQUIRED. THE SLOPES SHALL BE FINE GRADED AND EITHER PROTECTED WITH MULCH OR TEMPORARILY SEED. IF THE EXPOSED AREA HAS BEEN LOAMED, FINAL GRADED AND IS SMOOTH, THEN THE AREA MAY BE DORMANT SEED AT A RATE OF 200-300% HIGHER THAN SPECIFIED FOR PERMANENT SEED AND THEN MULCHED AS APPLICABLE. SLOPES SHALL NOT BE LEFT UNSTABILIZED OVER THE WINTER OR IN AREAS WHERE WORK HAS CEASED FOR MORE THAN 14 DAYS UNLESS TREATED IN THE ABOVE MANNER. UNTIL SUCH TIME AS WEATHER CONDITIONS ALLOW DITCHES TO BE FINISHED WITH THE PERMANENT SURFACE TREATMENT, EROSION SHALL BE CONTROLLED BY THE INSTALLATION OF SEDIMENT BARRIERS OR STONE CHECK DAMS IN ACCORDANCE WITH THE STANDARD DETAILS.
- MULCHING REQUIREMENTS:
  - BETWEEN THE DATES OF NOVEMBER 1ST AND APRIL 15TH ALL MULCH SHALL BE ANCHORED BY EITHER PEG LINE, MULCH NETTING OR WOOD CELLULOSE FIBER.
  - MULCH NETTING SHALL BE USED TO ANCHOR MULCH IN ALL DRAINAGE WAYS WITH A SLOPE GREATER THAN 3% FOR SLOPE EXPOSED TO DIRECT WINDS AND FOR ALL OTHER SLOPES GREATER THAN 8%.
  - MULCH NETTING SHALL BE USED TO ANCHOR MULCH IN ALL AREAS WITH SLOPES GREATER THAN 15%. AFTER OCTOBER 1ST THE SAME APPLIES FOR ALL SLOPES GREATER THAN 8%.
- ALL DISTURBED AREAS SHALL BE STABILIZED IN ACCORDANCE WITH THE STORMWATER PREVENTION PLAN.
- DURING THE WINTER CONSTRUCTION PERIOD ALL SNOW SHALL BE REMOVED FROM AREAS OF SEEDING AND MULCHING PRIOR TO PLACEMENT.

# GENERAL EROSION AND SEDIMENT CONTROL NOTES

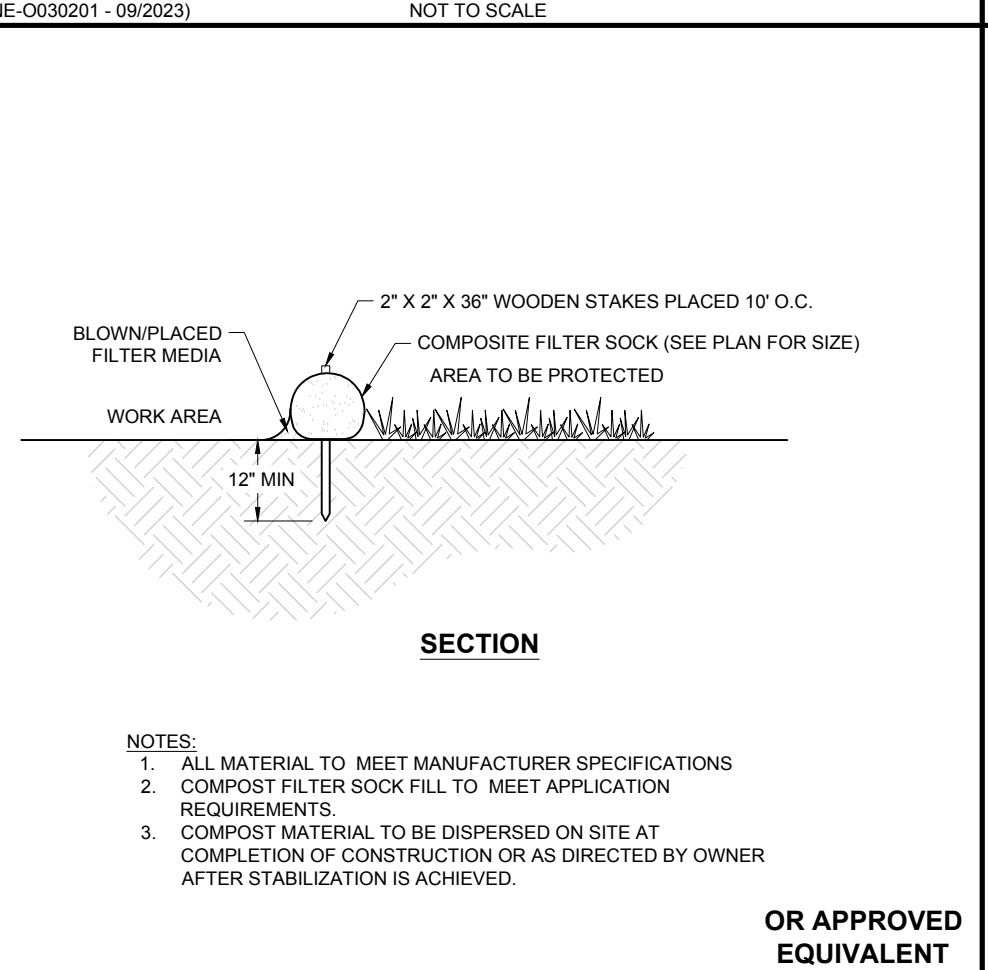
- THE GENERAL NOTES MUST BE INCLUDED AS PART OF THIS ENTIRE DOCUMENT PACKAGE AND ARE PART OF THE CONTRACT DOCUMENTS. THE GENERAL NOTES ARE REFERRED TO HEREIN AND THE CONTRACTOR MUST REFER TO THEM AND FULLY COMPLY WITH THESE NOTES, IN THEIR ENTIRETY. THE CONTRACTOR MUST BE FAMILIAR WITH AND ACKNOWLEDGE FAMILIARITY WITH ALL OF THE GENERAL NOTES AND ALL OF THE PLANS' SPECIFIC NOTES.
  - EROSION CONTROL MEASURES MUST CONFORM TO THE STATE, LOCAL, AND FEDERAL GUIDELINES FOR URBAN EROSION AND SEDIMENT CONTROL UNLESS OTHERWISE NOTED, OR UNLESS THE PROFESSIONAL OF RECORD CLEARLY AND SPECIFICALLY, IN WRITING, DIRECTS OTHERWISE. INSTALLATION OF EROSION CONTROL, CLEARING, AND SITE WORK MUST BE PERFORMED EXACTLY AS INDICATED IN THE EROSION CONTROL CONSTRUCTION NOTES.
  - THE DISTURBED LAND AREA OF THIS SITE IS APPROXIMATELY XXXXX ACRES.
  - THE FOLLOWING EROSION CONTROL MEASURES ARE PROPOSED FOR THIS SITE:
    - STABILIZED CONSTRUCTION ENTRANCE/EXIT - A TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT IS TO BE INSTALLED AT THE DESIGNATED LOCATION SHOWN ON THE PLAN. THIS AREA MUST BE GRADED SO THAT RUNOFF WATER WILL BE RETAINED ON-SITE.
    - SEDIMENT FENCE - INSTALL SILT FENCE(S) AND/OR SILT SOCK AROUND ALL OF THE DOWNSLOPE PERIMETERS OF THE SITE, TEMPORARY FILL AND SOIL STOCKPILES.
    - INSTALL FILTER FABRIC DROP INLET PROTECTION AROUND EACH DRAINAGE INLET AS DRAINAGE STRUCTURES ARE INSTALLED TO REDUCE THE QUANTITY OF SEDIMENT. INSTALL TEMPORARY INLET PROTECTION ON INLETS DOWNSLOPE FROM DISTURBANCE, WHICH MAY BE BEYOND THE LIMITS OF DISTURBED AREA.
    - INSTALLATION OF EROSION CONTROL DEVICES MUST BE IN ACCORDANCE WITH ALL OF THE MANUFACTURER'S RECOMMENDATIONS.
  - THE CONTRACTOR MUST INSPECT EROSION CONTROL MEASURES WEEKLY. THE CONTRACTOR MUST REMOVE ANY SILT DEPOSITS GREATER THAN 6 INCHES OR HALF THE EROSION CONTROL BARRIER'S HEIGHT COLLECTED ON THE FILTER FABRIC AND/OR SILT SOCK BARRIERS AND EXCAVATE AND REMOVE ANY SILT FROM DROP INLET PROTECTION.
  - THE CONTRACTOR MUST APPLY TEMPORARY SEED AND MULCH TO ALL DISTURBED AREAS THAT WILL NOT BE BROUGHT TO FINISHED GRADE AND VEGETATED WITHIN 7 DAYS. WHEN AREAS ARE DISTURBED AFTER THE GROWING SEASON, THE CONTRACTOR MUST STABILIZE SAME WITH GEOTEXTILE FABRIC AND MAINTAIN SAME IN STRICT ACCORDANCE WITH BEST MANAGEMENT PRACTICES.
  - THE CONTRACTOR MUST INSTALL ADDITIONAL EROSION CONTROL MEASURES IF THE PROFESSIONAL OF RECORD SO REQUESTS, TO PREVENT ANY, INCLUDING THE INCIDENTAL DISCHARGE OF SILT-LADEN RUNOFF FROM EXITING THE SITE.
  - THE CONTRACTOR MUST BE RESPONSIBLE FOR INSPECTING AND MAINTAINING ALL EROSION CONTROL MEASURES ON THE SITE UNTIL PERMANENT PAVING AND TURF/LANDSCAPING IS ESTABLISHED. THE COSTS OF INSTALLING AND MAINTAINING THE EROSION CONTROL MEASURES MUST BE INCLUDED IN THE BID PRICE FOR THE SITE WORK AND THE CONTRACTOR IS RESPONSIBLE FOR ALL SUCH COSTS.
  - THE CONTRACTOR MUST CONTINUE TO MAINTAIN ALL EROSION CONTROL MEASURES UNTIL THE COMPLETION OF CONSTRUCTION AND THE ESTABLISHMENT OF VEGETATION.
  - THE CONTRACTOR MUST REMOVE EROSION CONTROL MEASURES, SILT AND DEBRIS AFTER ESTABLISHING PERMANENT VEGETATION COVER OR OTHER INSTALLING A DIFFERENT, SPECIFIED METHOD OF STABILIZATION.
  - THIS PLAN REPRESENTS THE MINIMUM LEVEL OF IMPLEMENTATION OF TEMPORARY EROSION AND SEDIMENTATION CONTROL FACILITIES, MEASURES AND STRUCTURES. ADDITIONAL FACILITIES, MEASURES AND STRUCTURES MUST BE INSTALLED WHERE NECESSARY TO COMPLY WITH ALL APPLICABLE CODES AND STANDARDS AND/OR TO PREVENT ANY, INCLUDING THE INCIDENTAL DISCHARGE OF SILT-LADEN RUNOFF FROM EXITING THE SITE.
  - THE CONTRACTOR MUST PROTECT ALL EXISTING TREES AND SHRUBS. THE CONTRACTOR MUST REFER TO THE LANDSCAPE AND/OR DEMOLITION PLANS FOR TREE PROTECTION, FENCE LOCATIONS AND DETAILS.
  - THE CONTRACTOR MUST REFER TO GRADING PLANS FOR ADDITIONAL INFORMATION.
  - THE CONTRACTOR MUST CLEAN EXISTING AND PROPOSED DRAINAGE STRUCTURES AND INTERCONNECTING PIPES ON OR OFF-SITE AS THE JURISDICTIONAL AGENCY REQUIRES, BOTH AT THE TIME OF SITE STABILIZATION AND AT END OF PROJECT.
  - SOIL EROSION CONTROL MEASURES MUST BE ADJUSTED OR RELOCATED BY THE CONTRACTOR AS IDENTIFIED DURING SITE OBSERVATION IN ORDER TO MAINTAIN THE COMPLETE EFFECTIVENESS OF ALL CONTROL MEASURES.
  - THE CONTRACTOR MUST IDENTIFY, ON THE PLAN, THE LOCATION OF WASTE CONTAINERS, FUEL STORAGE TANKS, CONCRETE WASHOUT AREAS AND ANY OTHER LOCATIONS WHERE HAZARDOUS MATERIALS ARE STORED.
- THE FOLLOWING CONSTRUCTION SEQUENCE IS RECOMMENDED:
- INSTALLATION OF STABILIZED CONSTRUCTION ENTRANCE/EXIT (AS SHOWN)
  - INSTALLATION OF EROSION CONTROL BARRIER (STRAW BALES AND SILT FENCE) (AS SHOWN)
  - INSTALLATION OF INLET PROTECTION IN STREET (AS SHOWN)
  - DEMOLITION OF EXISTING SITE STRUCTURES (SEE DEMOLITION PLAN)
  - DEMOLITION OF EXISTING SITE PAVEMENT AND AMENITIES (SEE DEMOLITION PLAN)
  - INSTALLATION OF PERMANENT LAWN AREAS AND SLOPES WITH TEMPORARY SEEDING
  - STABILIZATION OF PERMANENT LAWN AREAS AND SLOPES WITH TEMPORARY SEEDING
  - INSTALLATION OF INLET PROTECTION OF ON-SITE UTILITIES (AS SHOWN)
  - CONSTRUCTION OF BUILDINGS
  - CONSTRUCTION ALL CURBING AND LANDSCAPE ISLANDS AS INDICATED ON THE PLANS
  - SPREAD TOPSOIL ON SLOPED AREAS AND SEED AND MULCH
  - FINAL GRADING OF ALL SLOPED AREAS
  - PLACE 6" TOPSOIL ON SLOPES AFTER FINAL GRADING COMPLETED. FERTILIZE, SEED, AND MULCH SEED MIXTURE TO BE INSTALLED AS REQUIRED.
  - REMOVAL OF THE TEMPORARY SEDIMENT BASINS
  - PAVE PARKING LOT
  - LANDSCAPING PER LANDSCAPING PLAN
  - REMOVE EROSION CONTROLS AS DISTURBED AREAS BECOME STABILIZED TO 70% STABILIZATION OR GREATER



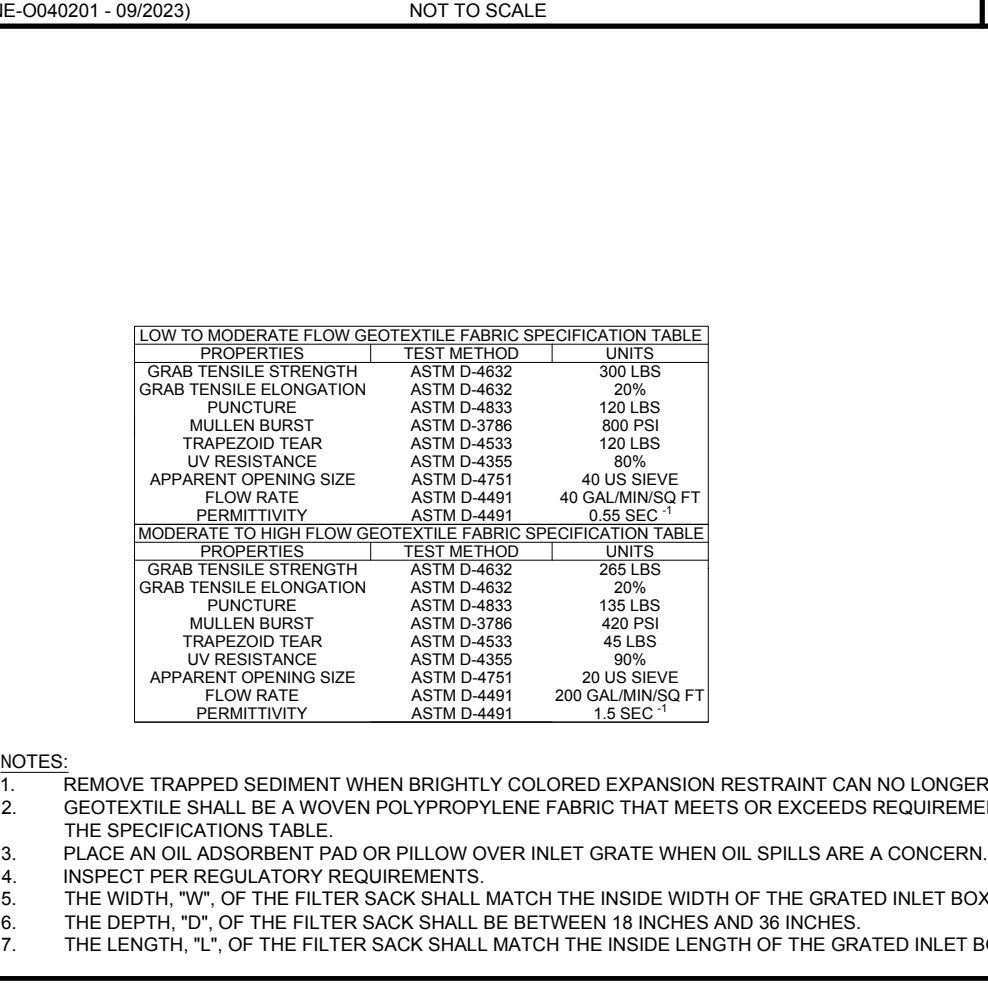
## STABILIZED CONSTRUCTION ENTRANCE



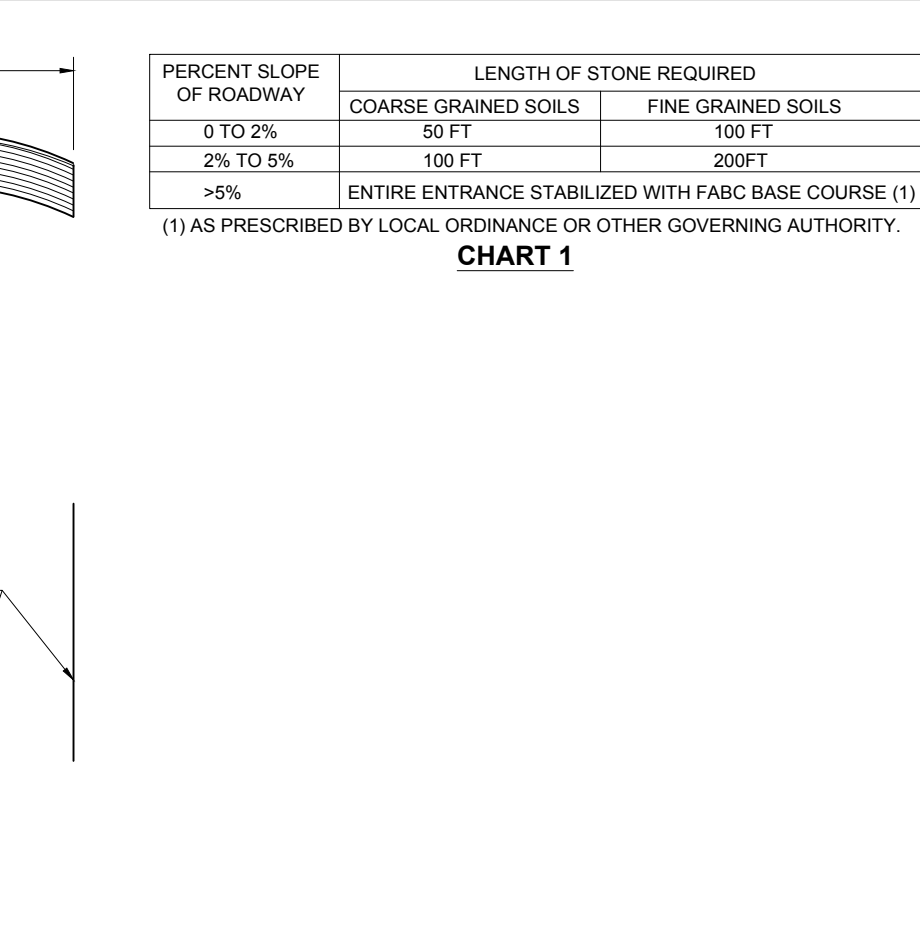
## TREE PROTECTION DURING SITE CONSTRUCTION



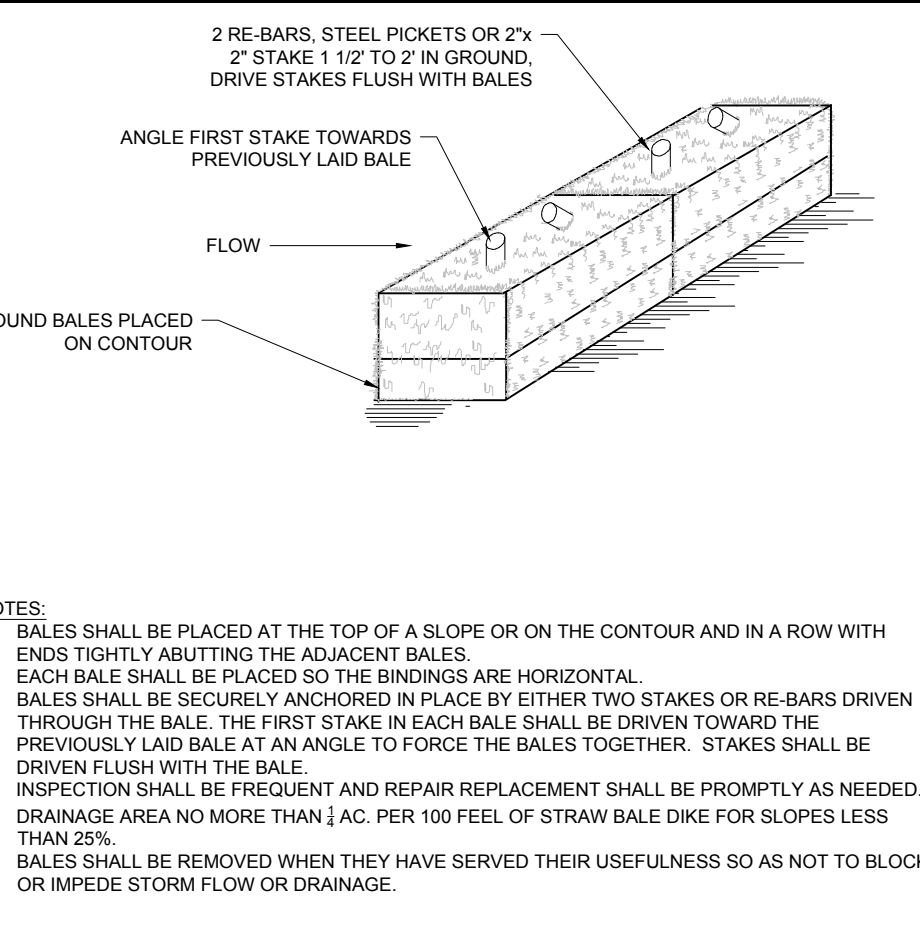
## COMPOST FILTER SOCK



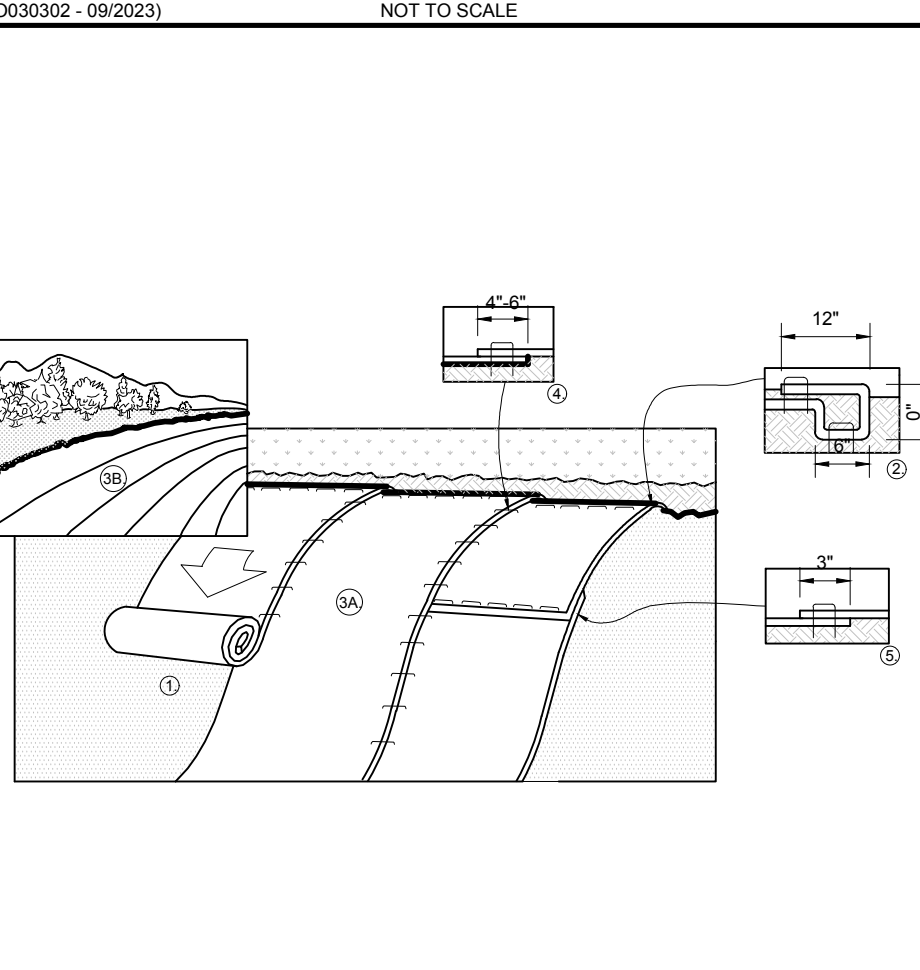
## INLET PROTECTION WITH MANUFACTURED INSERT



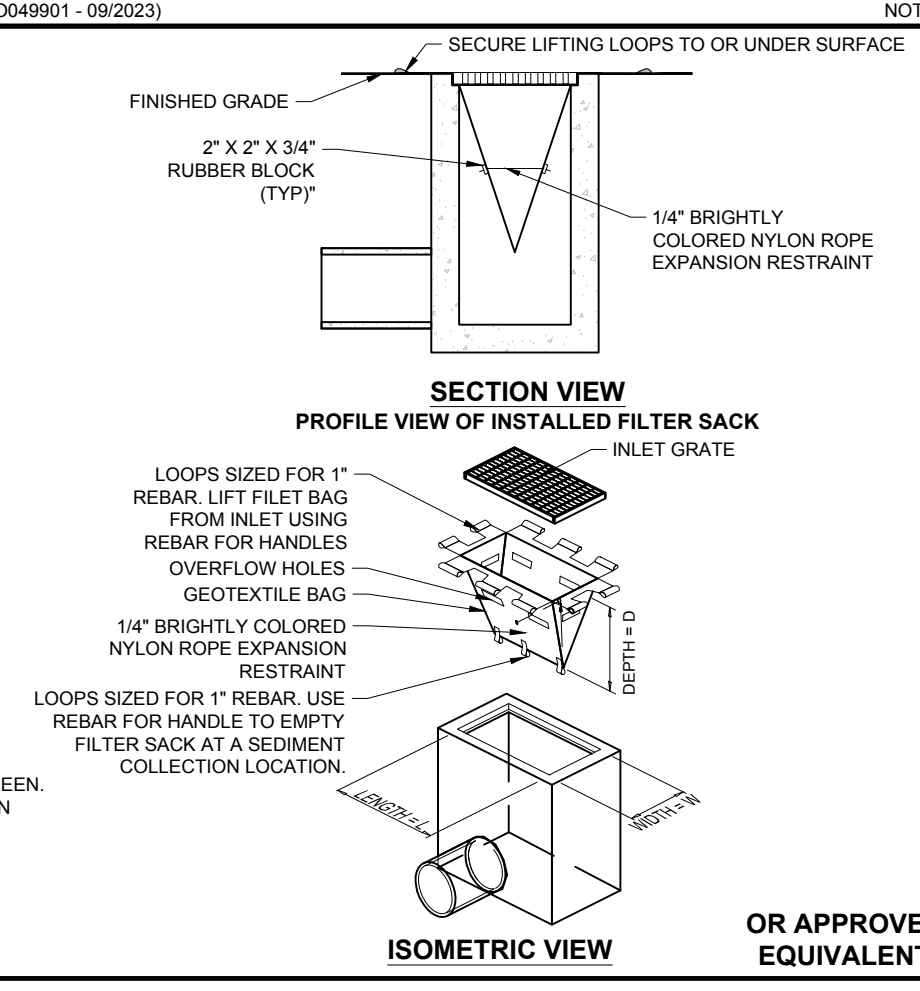
## CONCRETE WASTE MANAGEMENT AREA



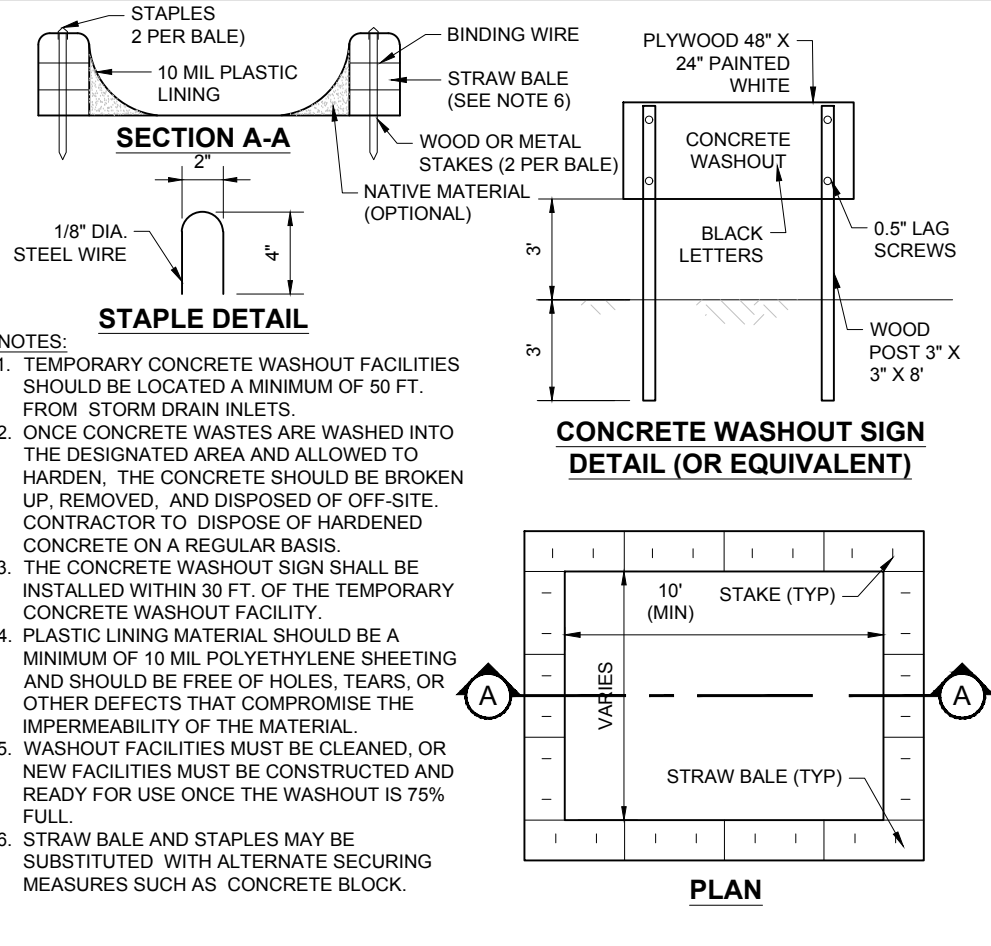
## STRAW BALE BARRIER



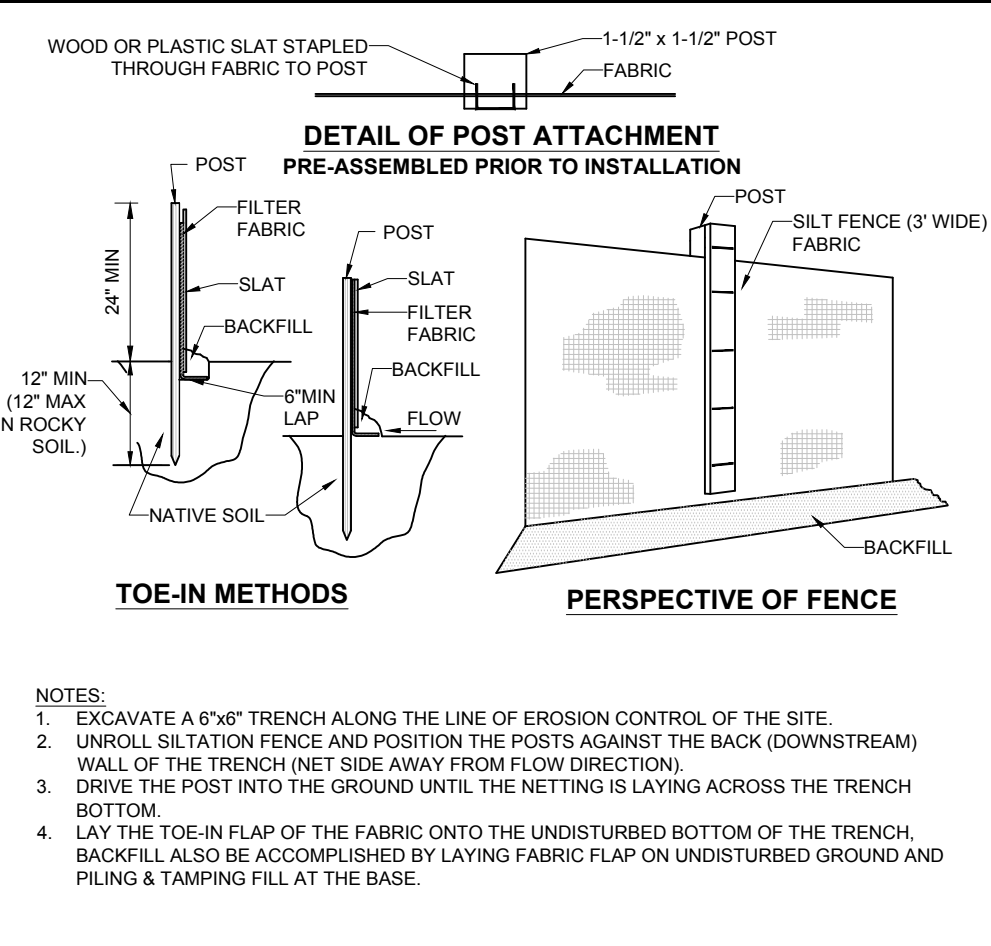
## EROSION CONTROL BLANKET STEP SLOPE PROTECTION



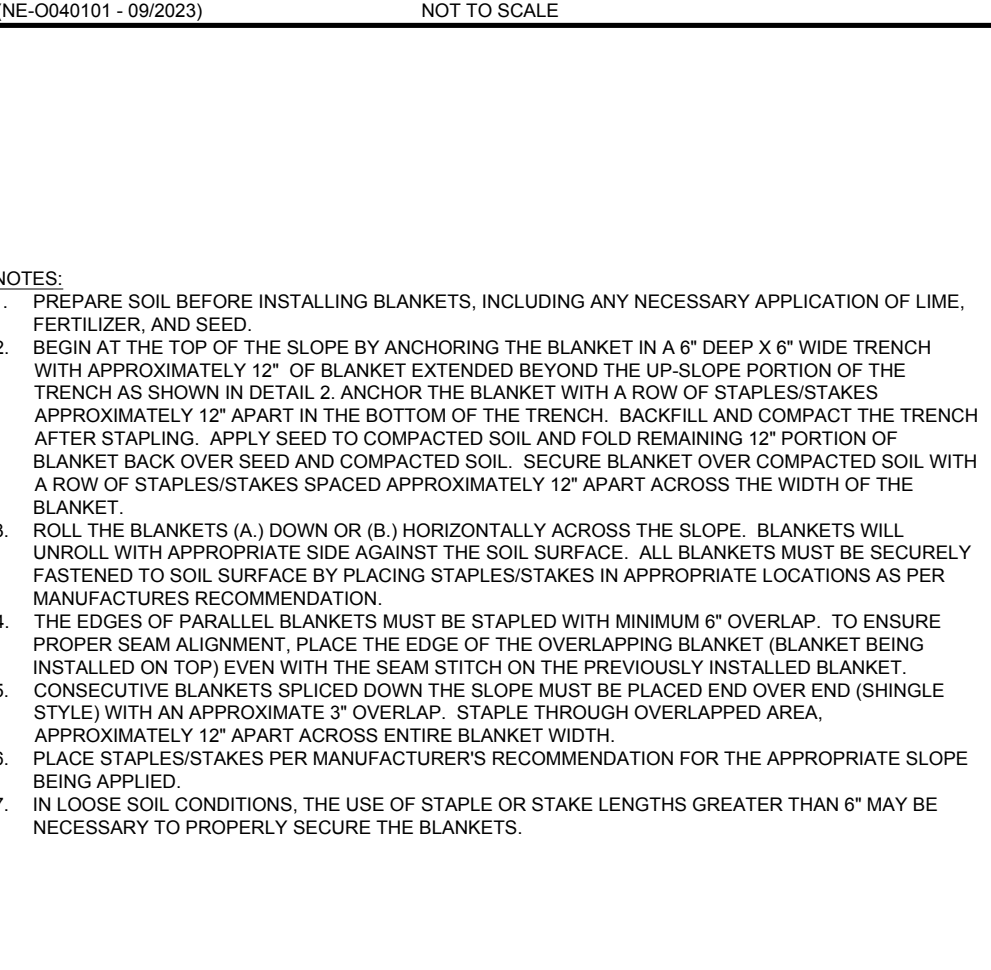
## TEMPORARY STOCK PILE WITH SILT FENCE AND FILTER SOCK



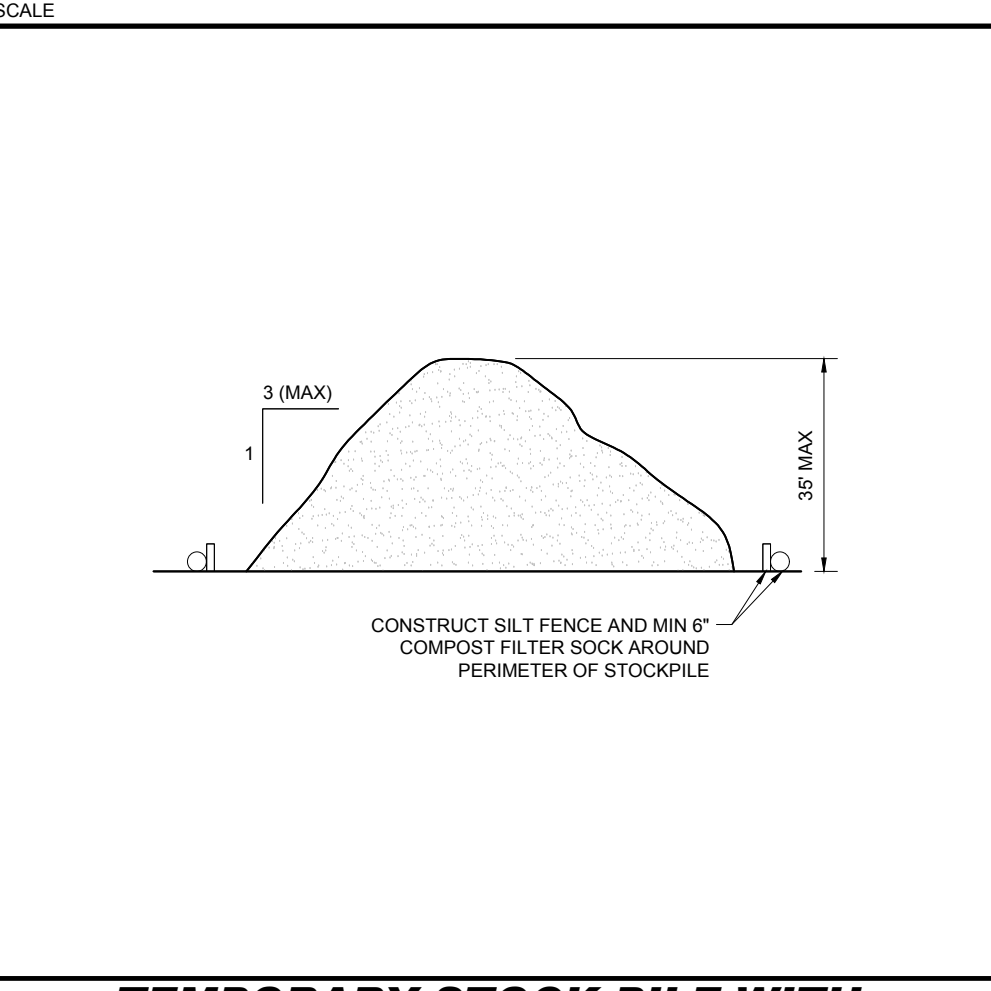
## CONCRETE WASTE MANAGEMENT AREA



## SILT FENCE



## EROSION CONTROL BLANKET STEP SLOPE PROTECTION



## TEMPORARY STOCK PILE WITH SILT FENCE AND FILTER SOCK

Restaurant Support Office  
6800 Bishop Road, Plano, TX 75024  
Tel: 972-769-3100 Fax: 972-769-3101

### REVISIONS

REV	DATE	COMMENT	DRAWN BY
1	10/22/2024	REVISED PER CITY COMMENTS	CJP

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ALWAYS CALL 811  
It's fast. It's free. It's the law.

## ENTITLEMENT SET

PROJECT No.:	MAA240136.00
DRAWN BY:	CJP
CHECKED BY:	MMA
DATE:	10/22/2024
CAD LID:	X-CIVL-TTLB

## SITE DEVELOPMENT PLANS

FOR PROPOSED DEVELOPMENT

MAP: 39 | BLK: 29 | LOT: 1C  
494 LINCOLN STREET  
WORCESTER COUNTY  
WORCESTER, MASSACHUSETTS

STORE: PROTOTYPE 6-V-AV RESTAURANT #RC1233

DESIGNER INFORMATION:

352 TURNPIKE ROAD, 3rd FLOOR  
SOUTHBOROUGH, MA 01772  
Phone: (508) 480-9900  
[www.BohlerEngineering.com](http://www.BohlerEngineering.com)

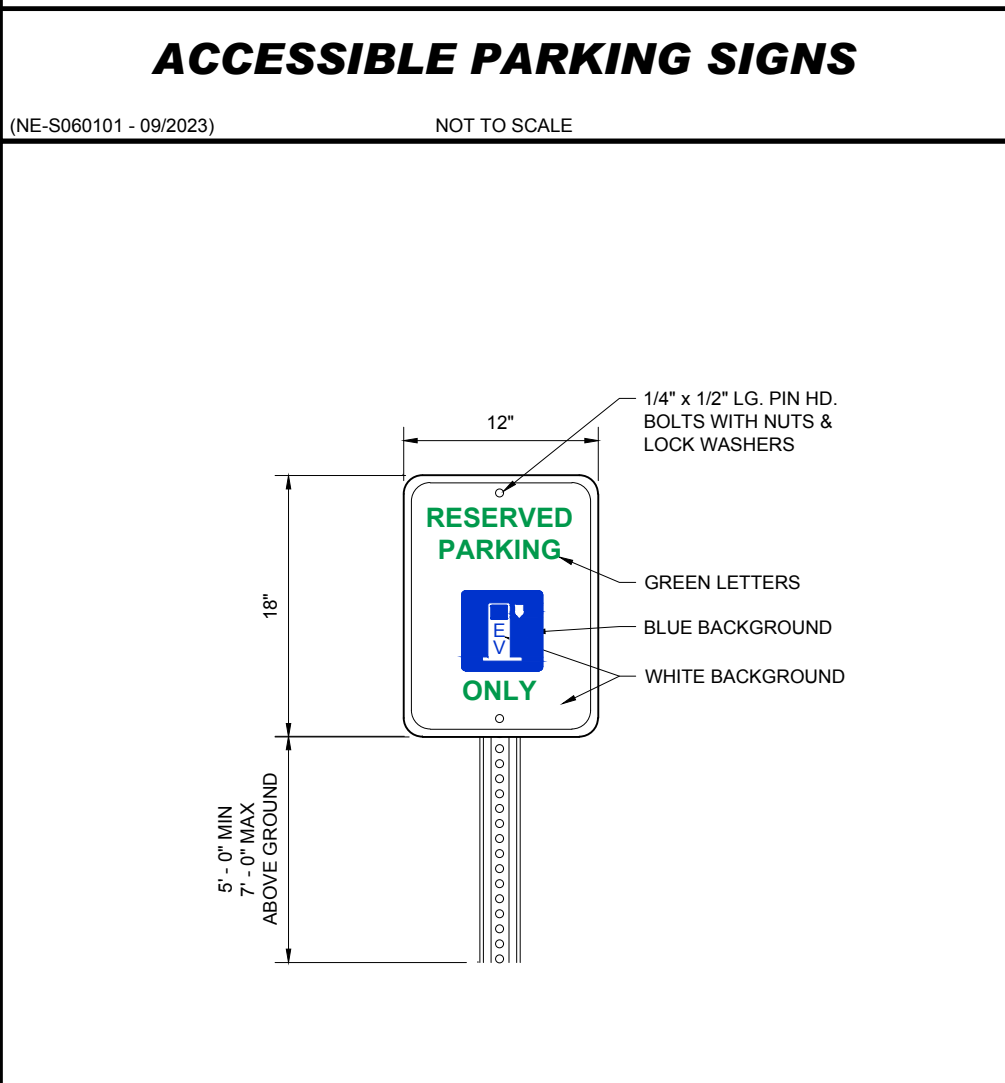
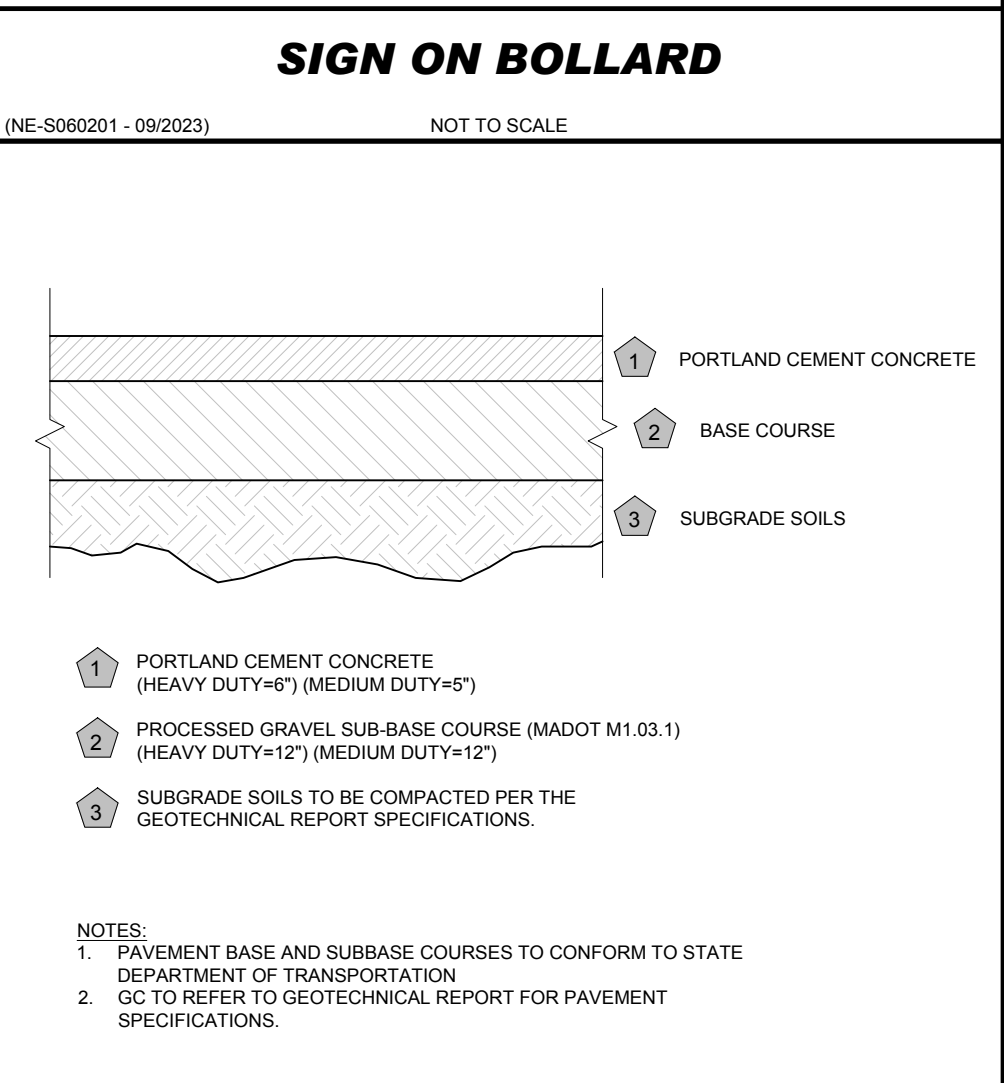
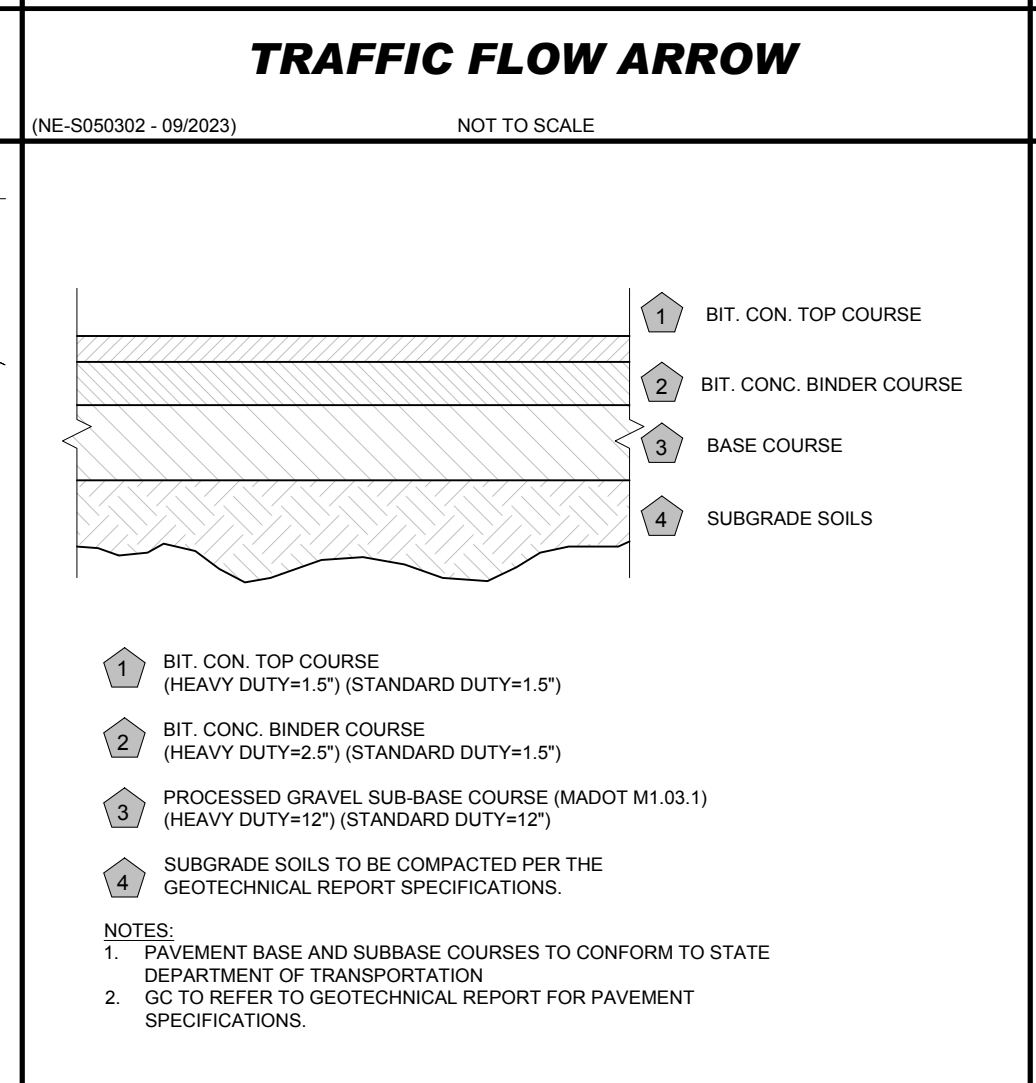
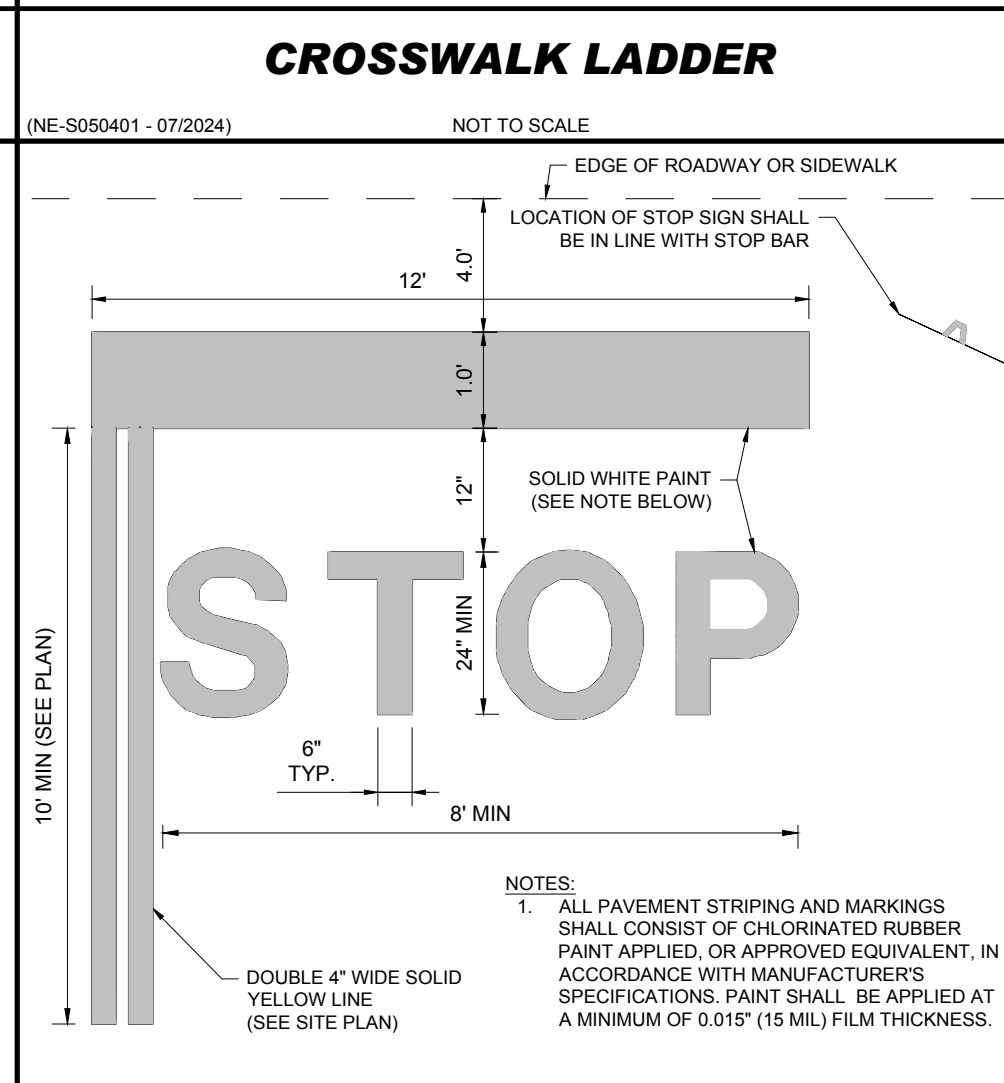
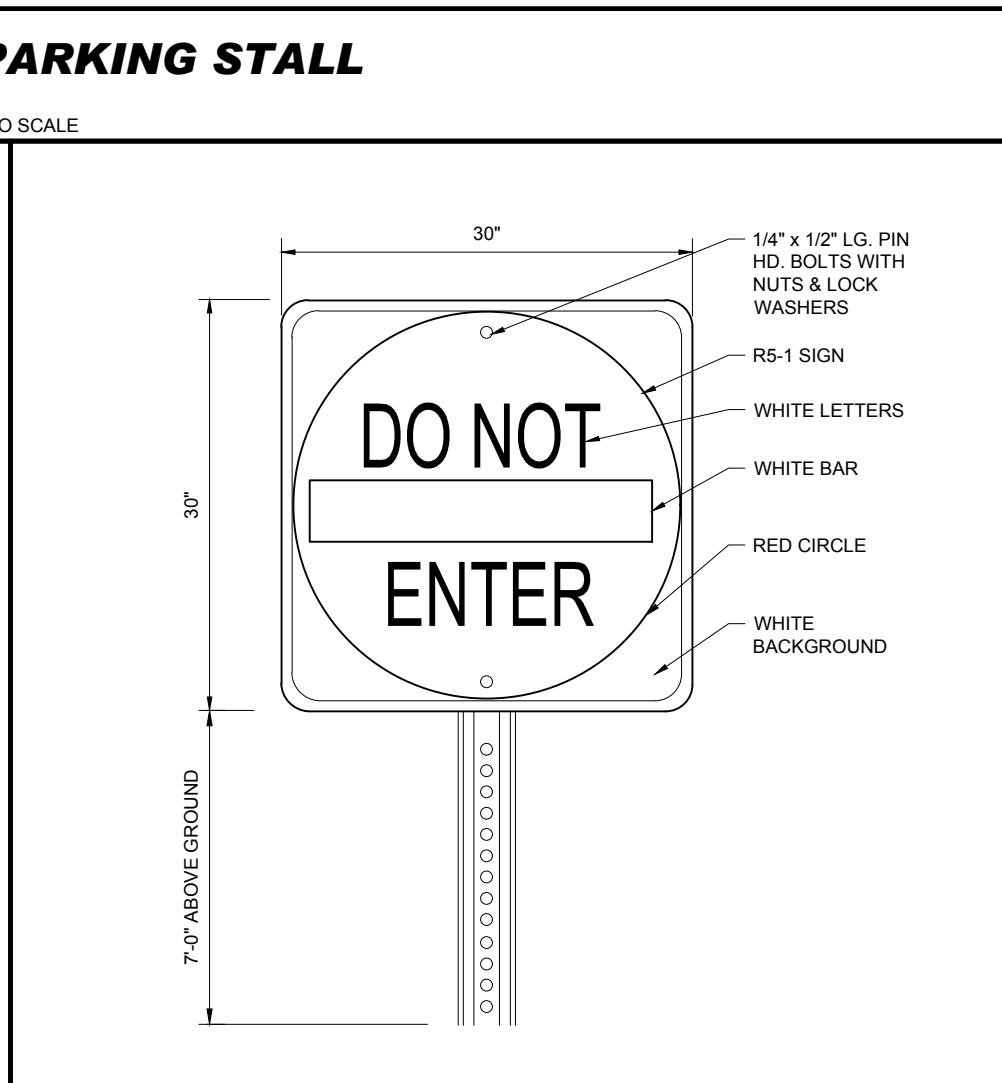
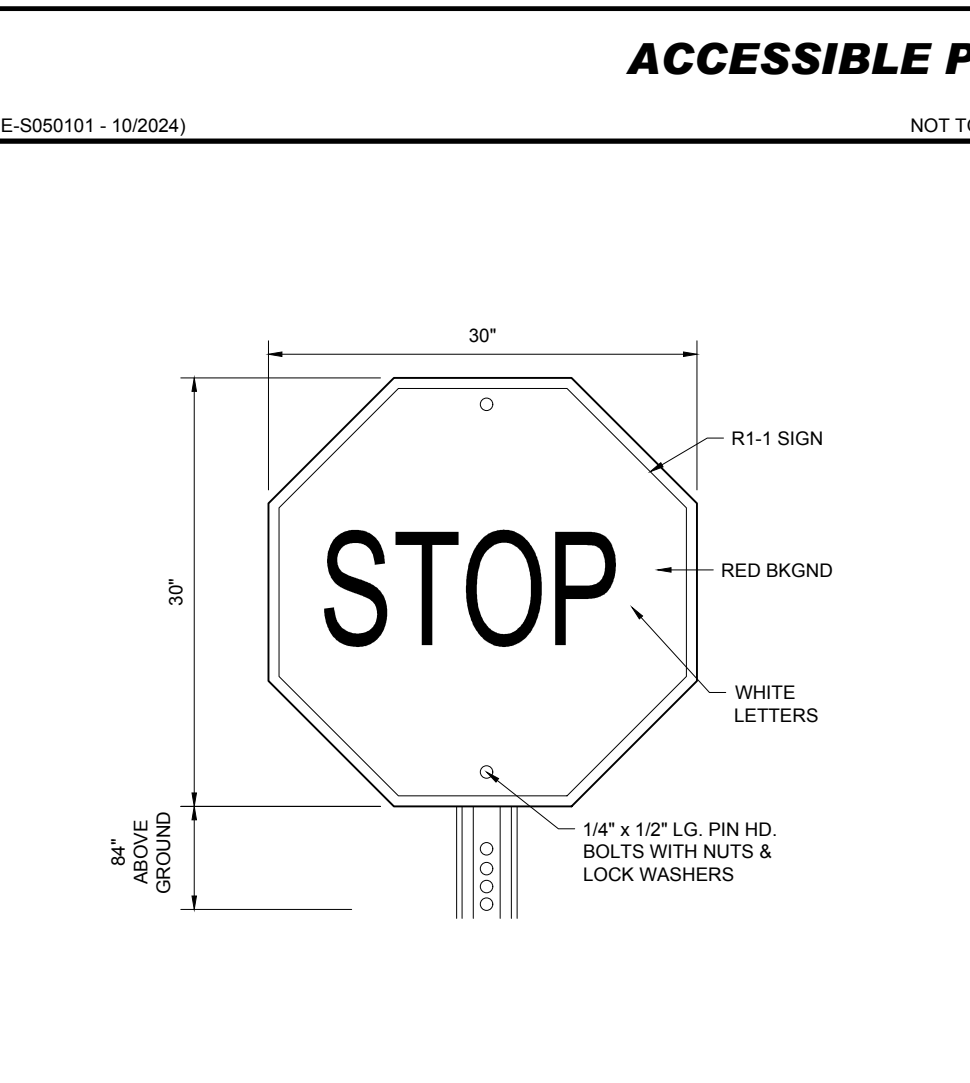
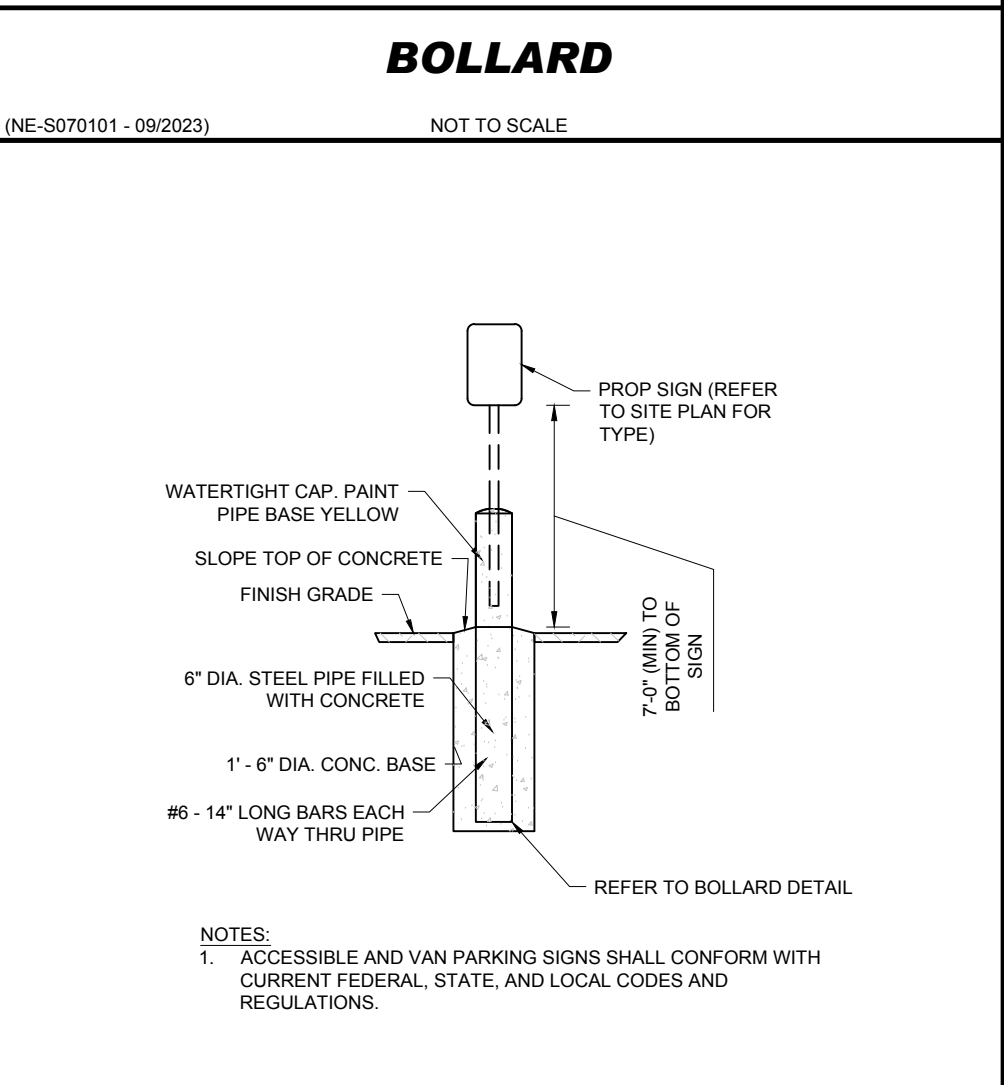
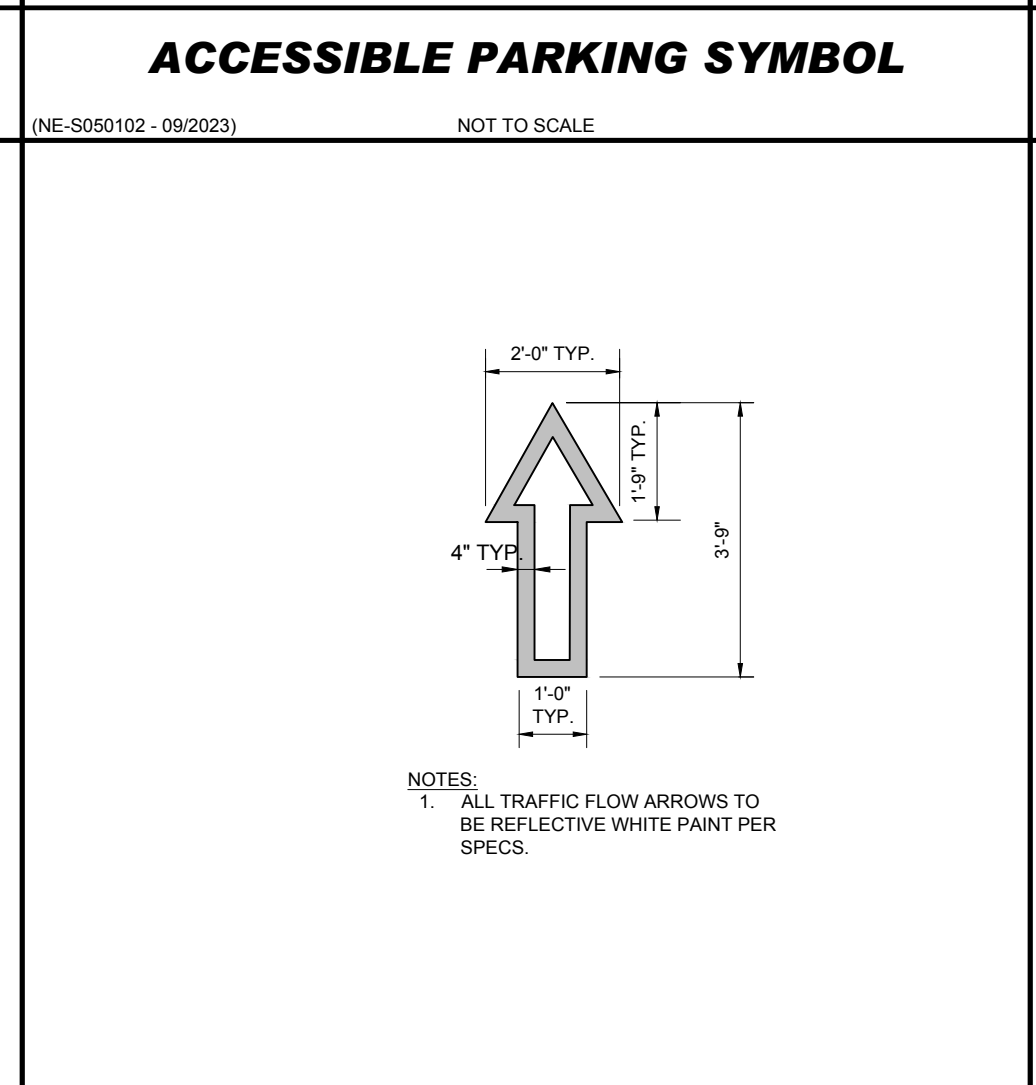
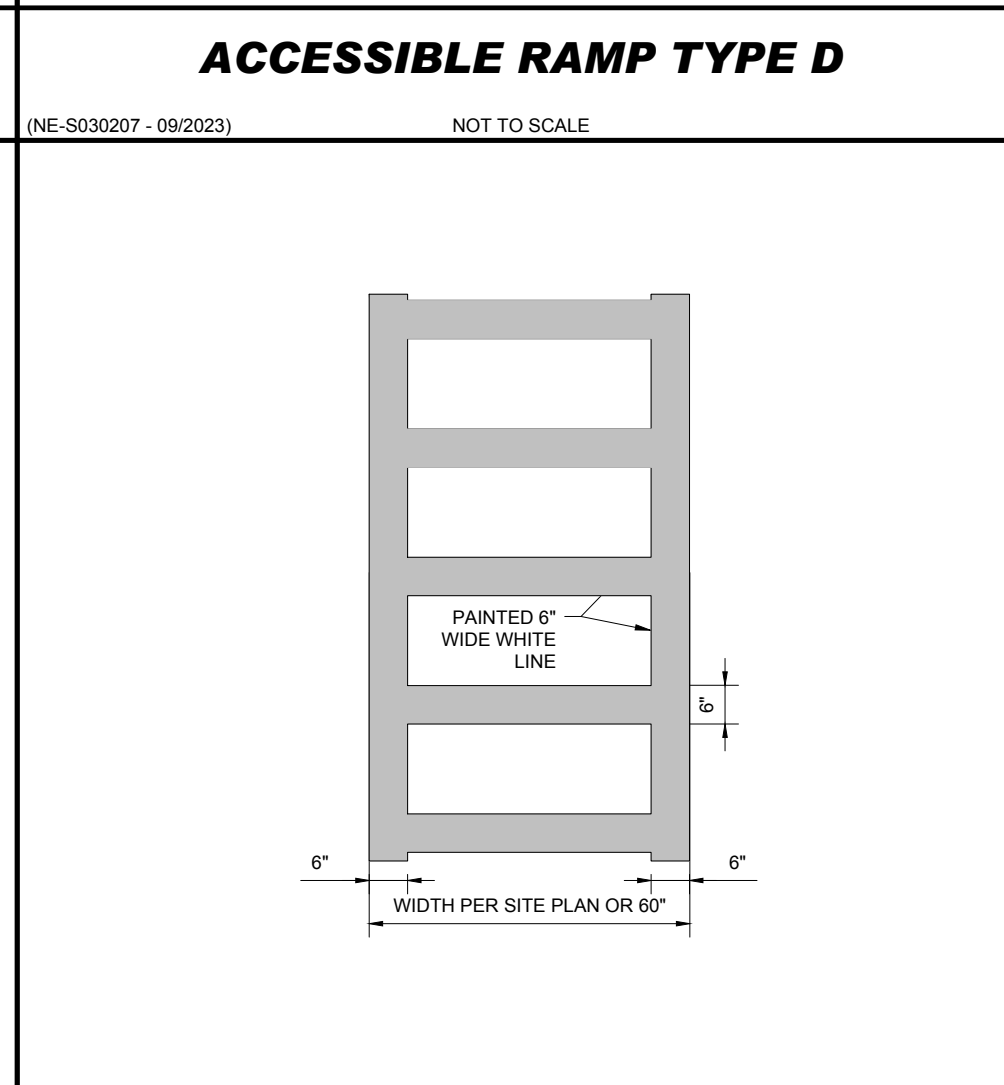
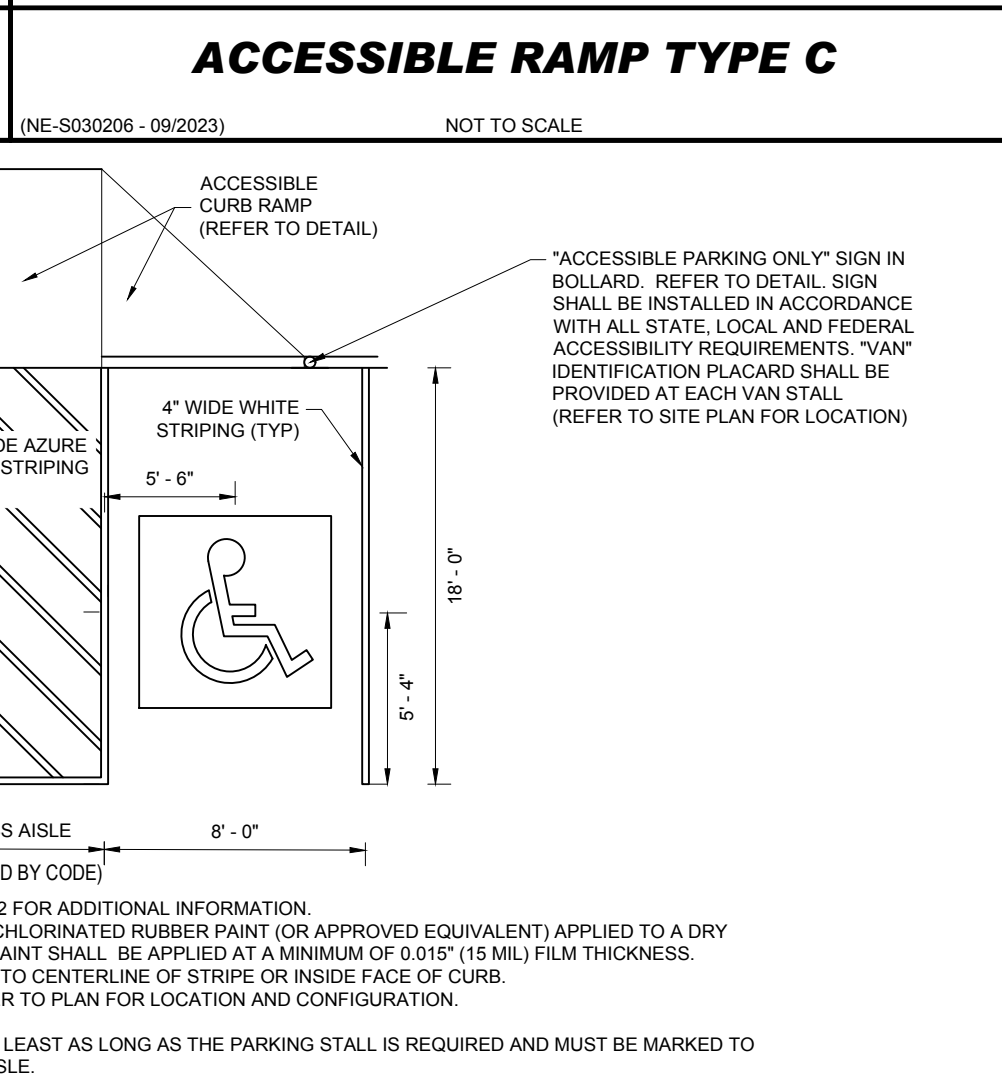
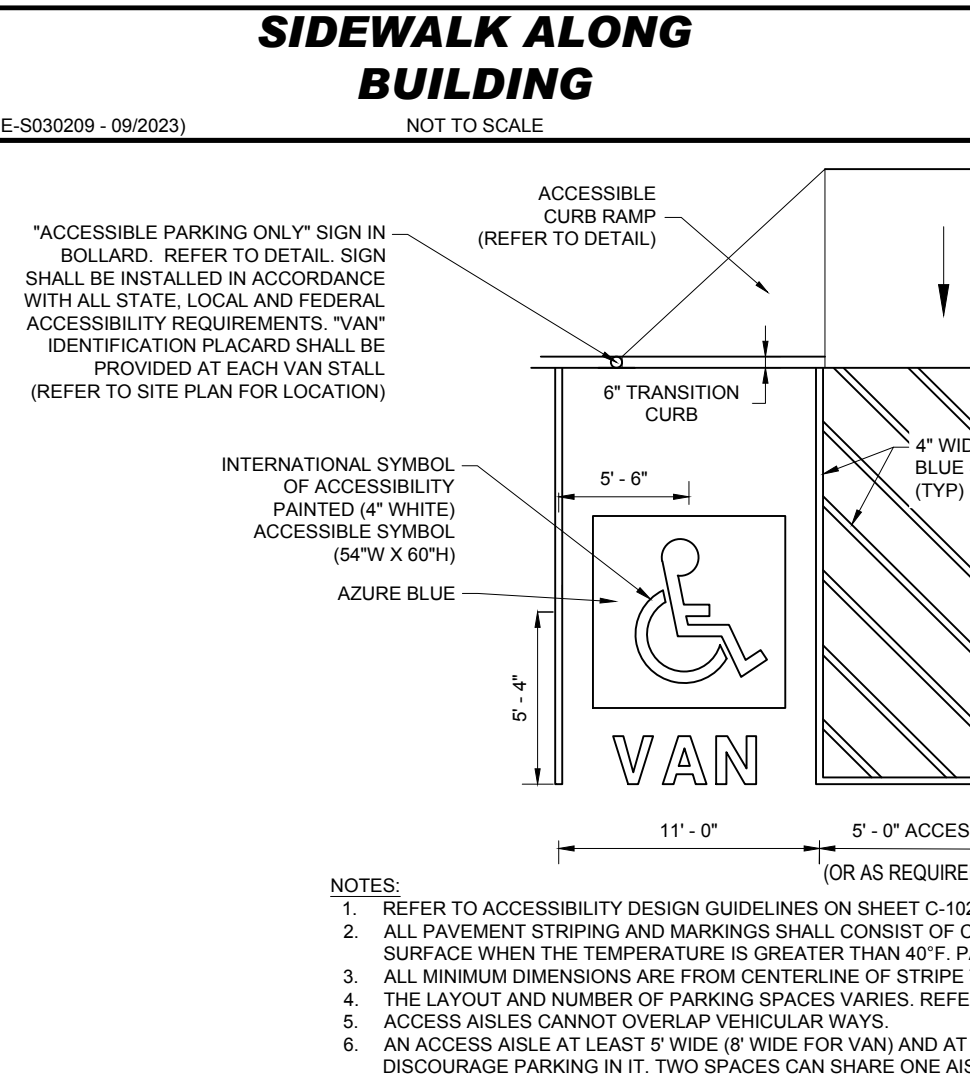
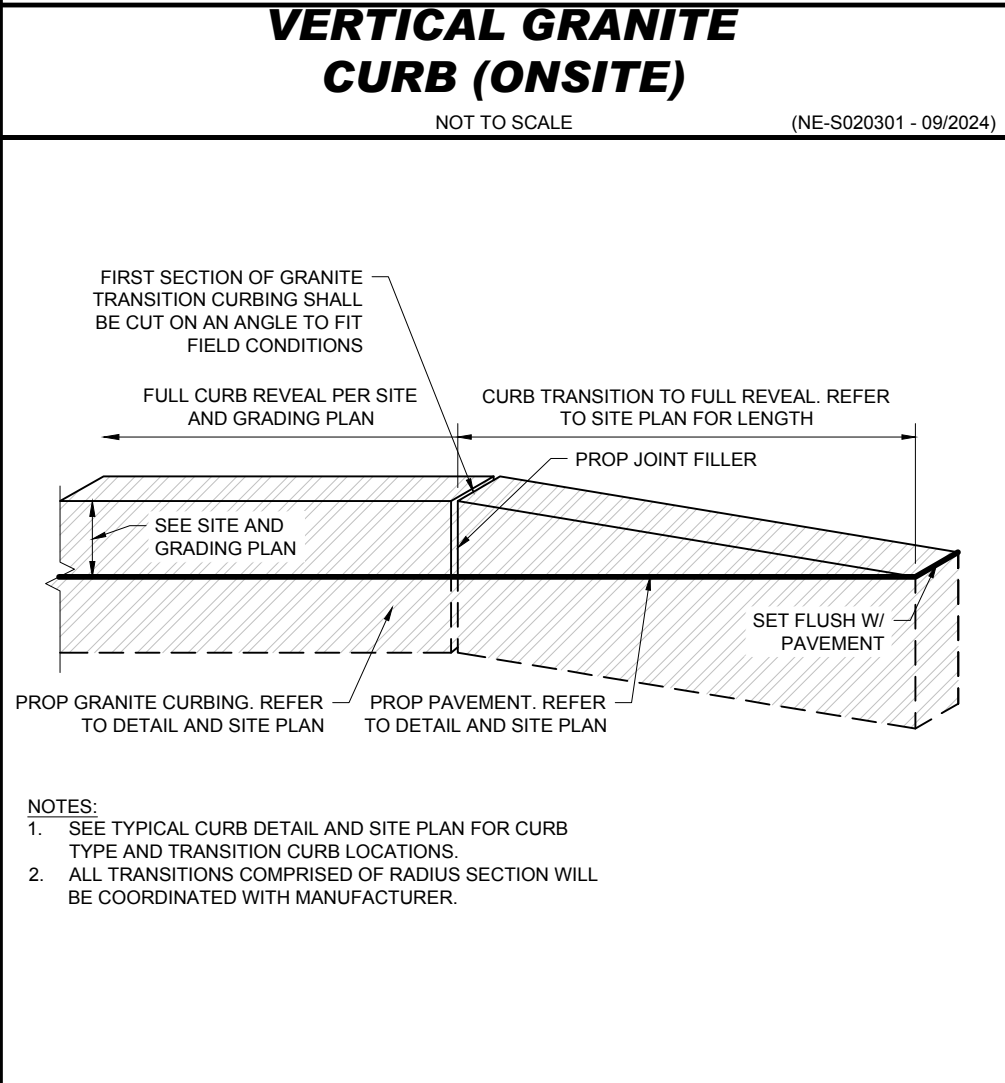
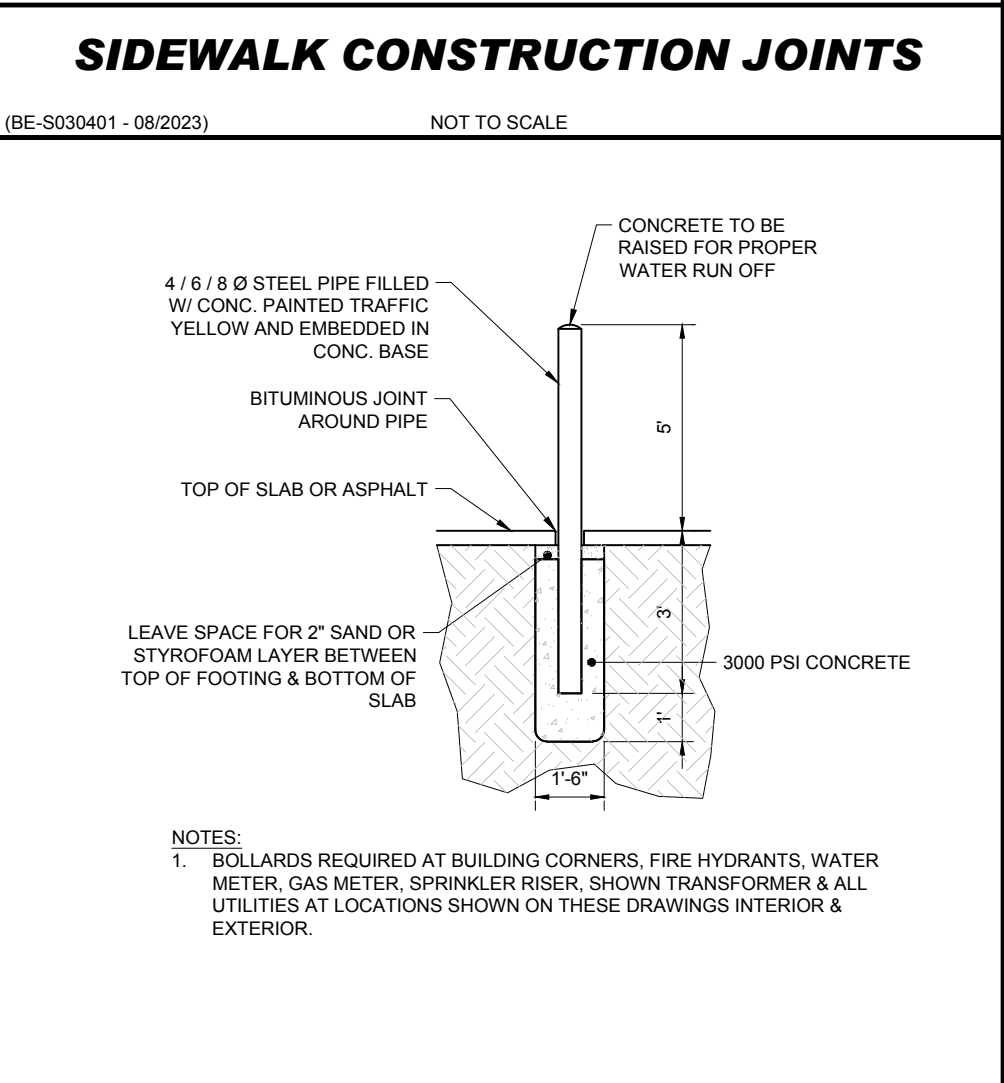
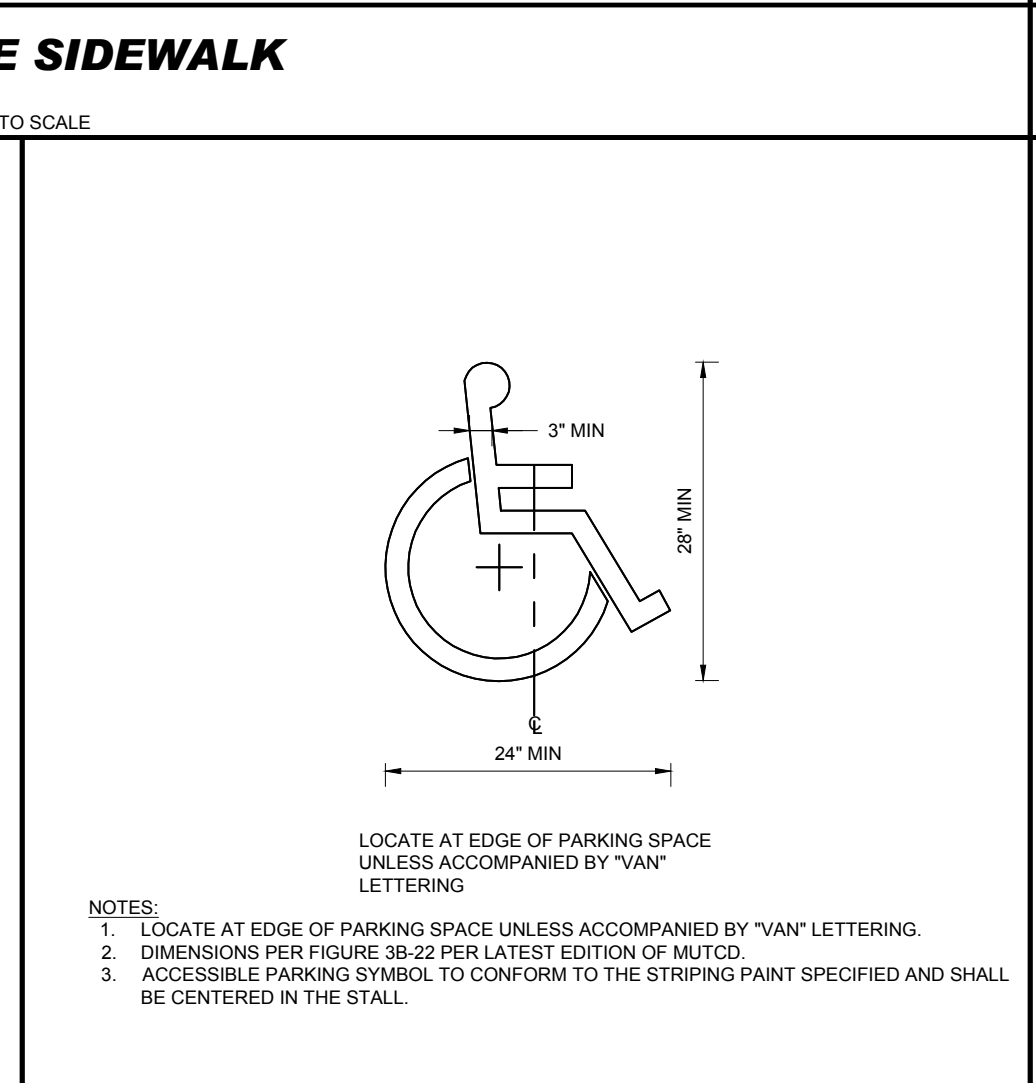
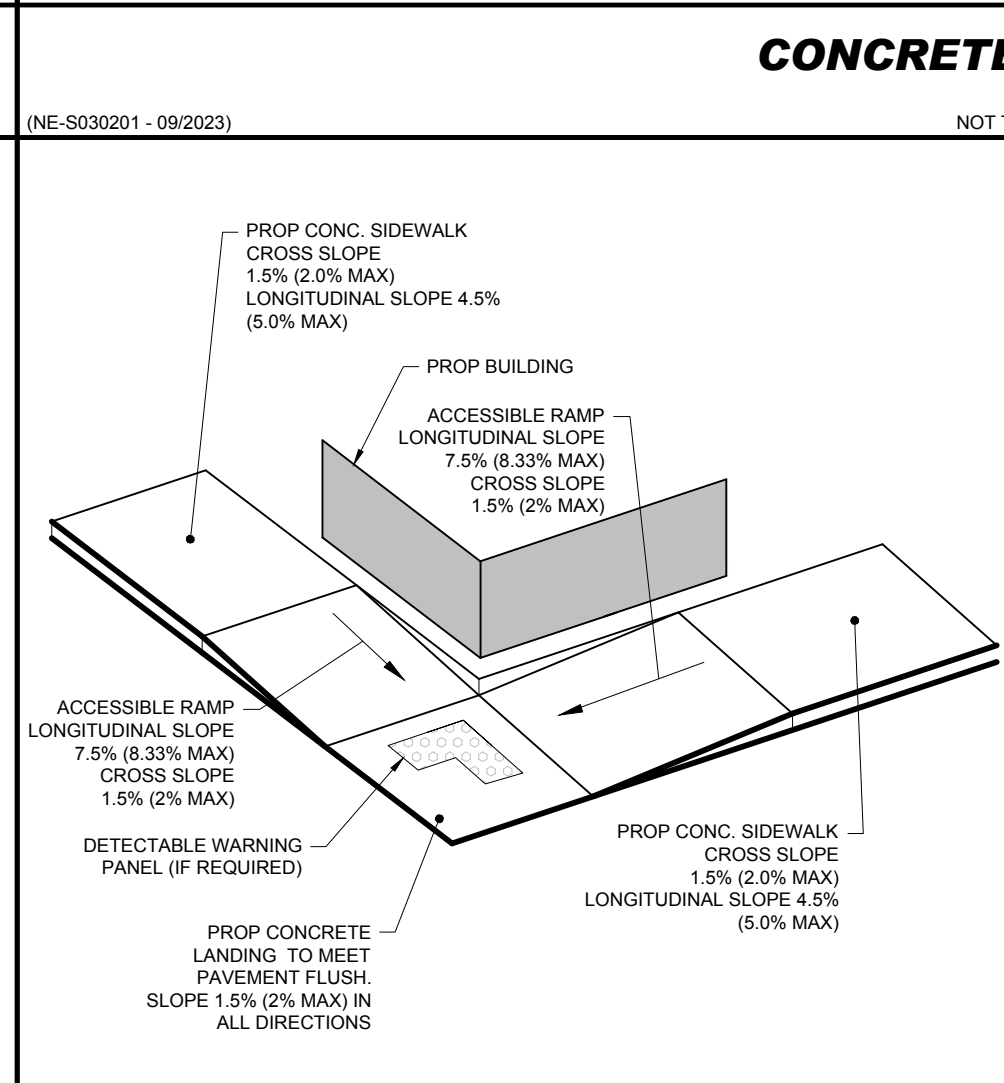
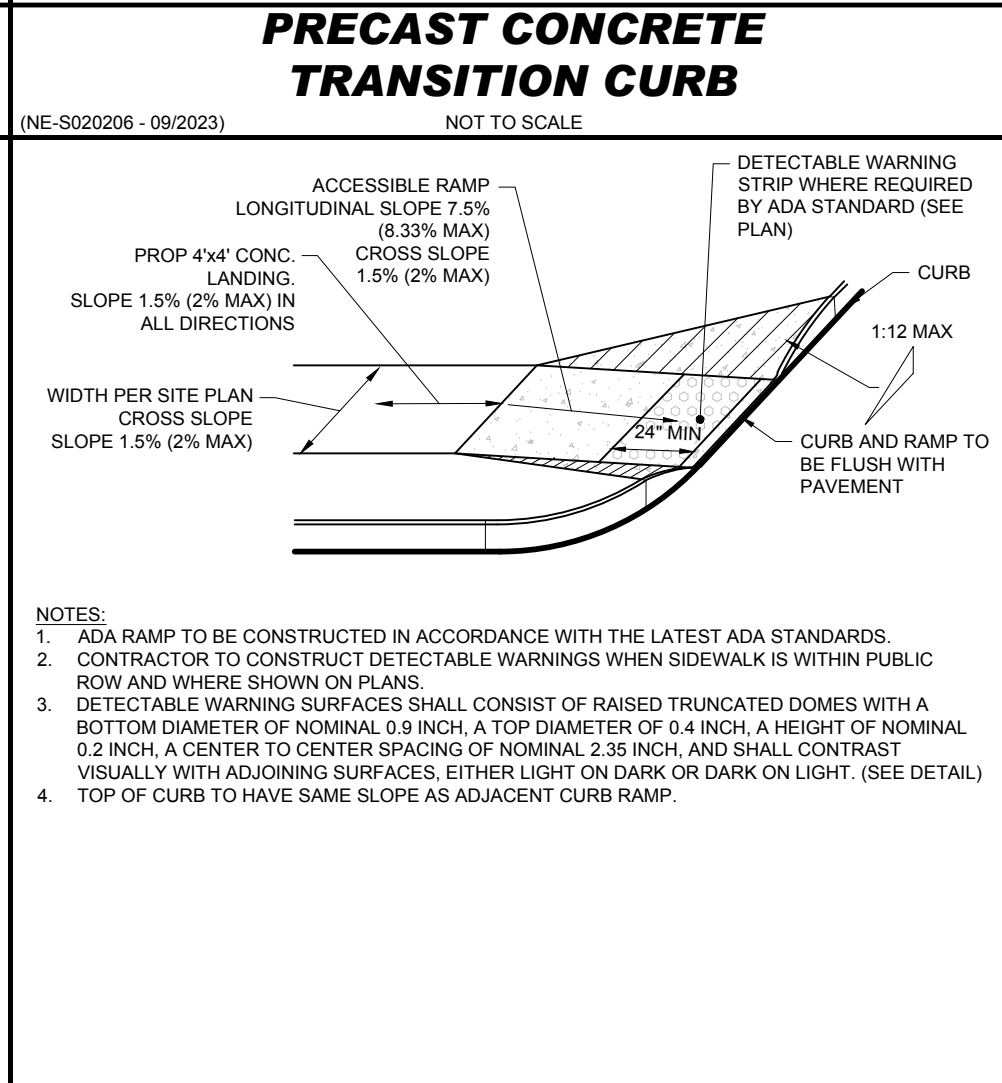
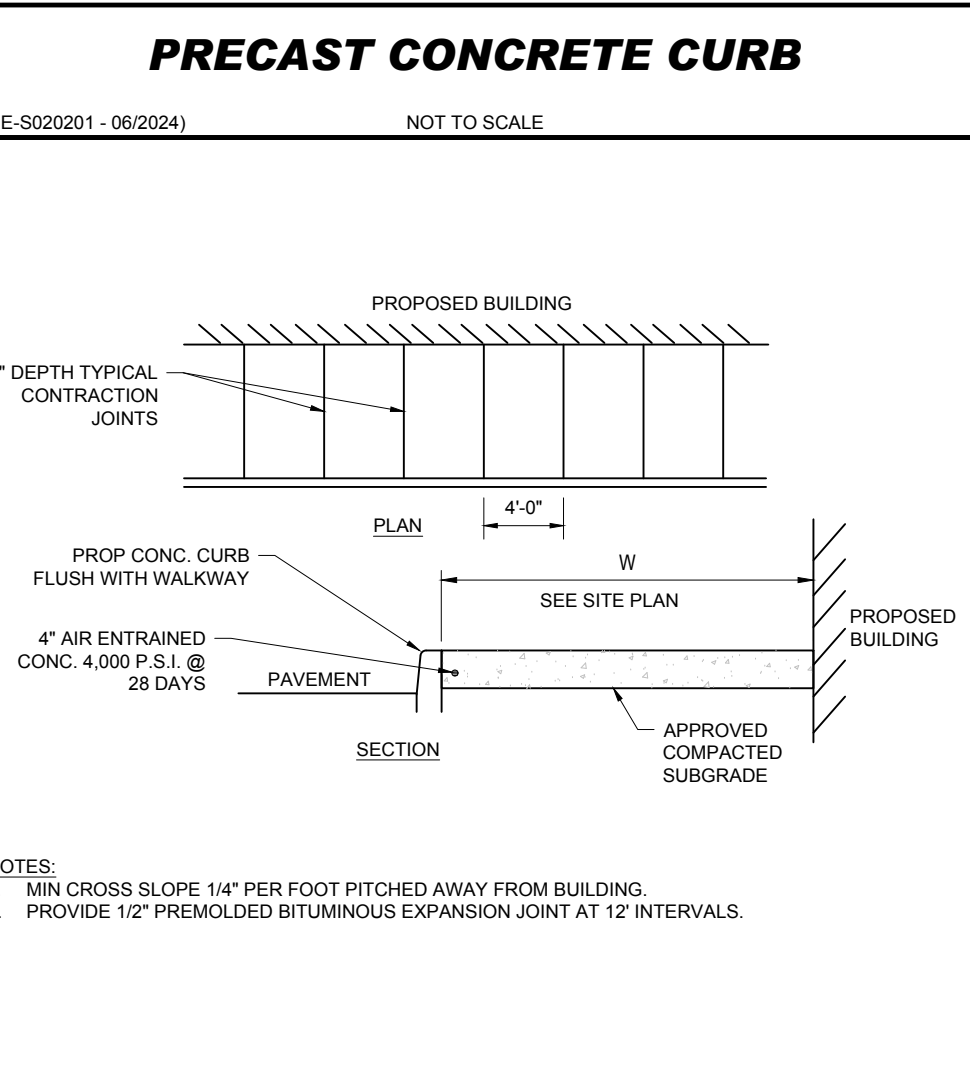
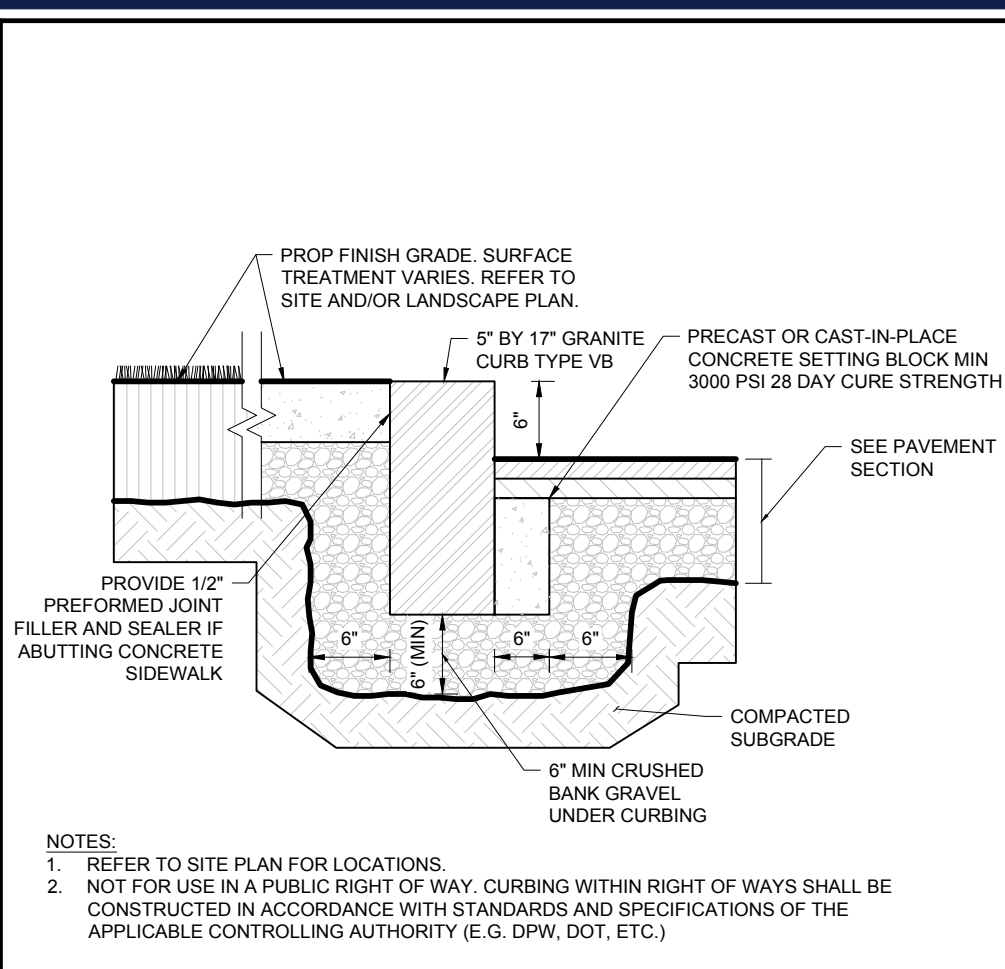
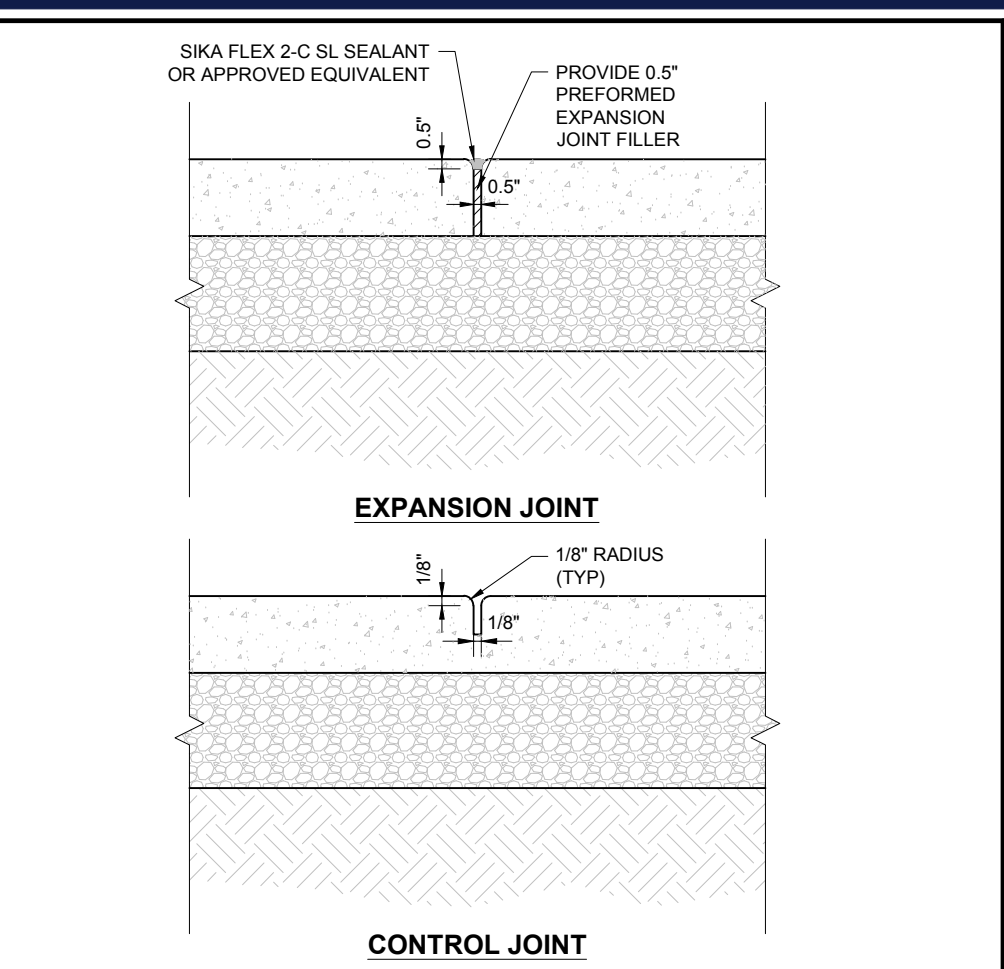
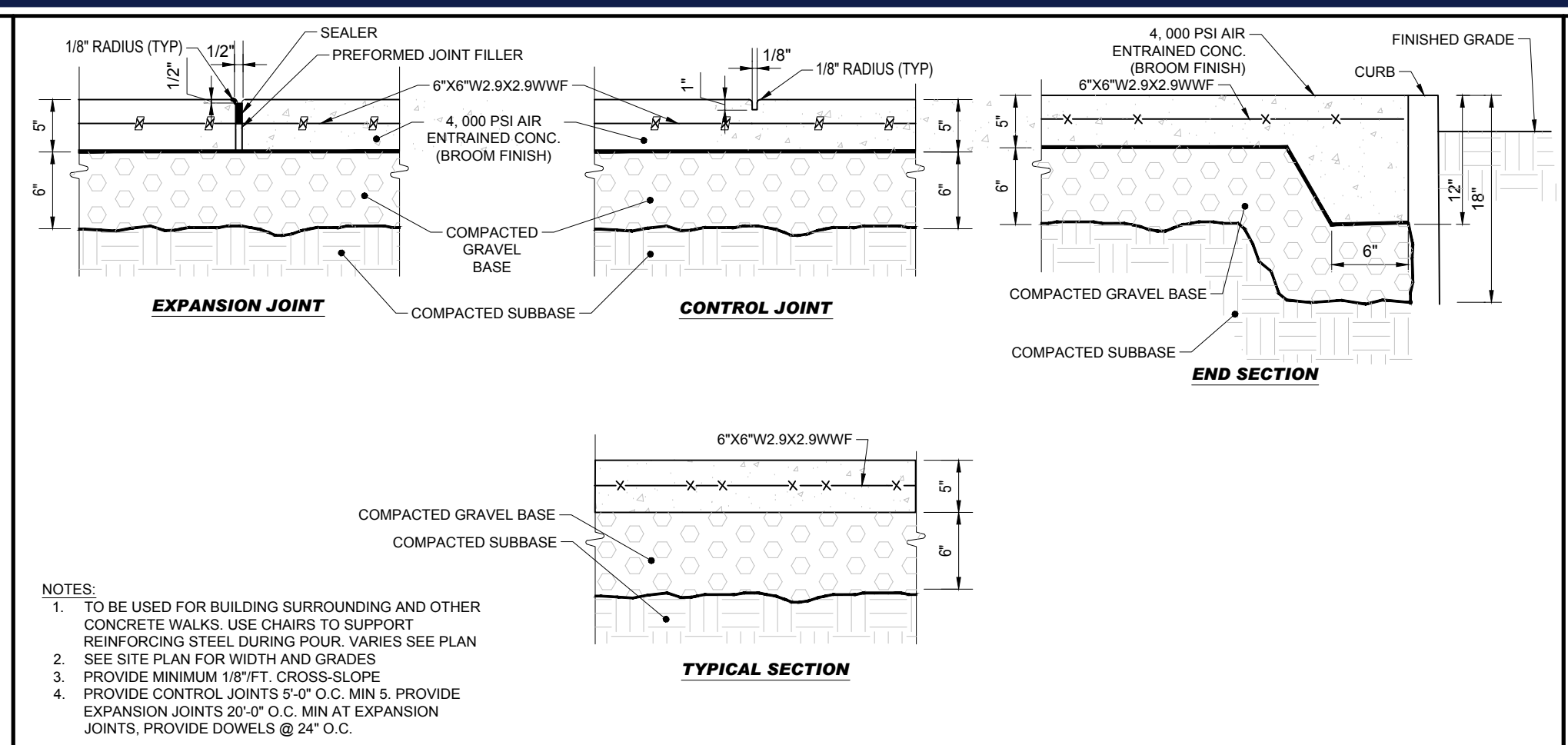
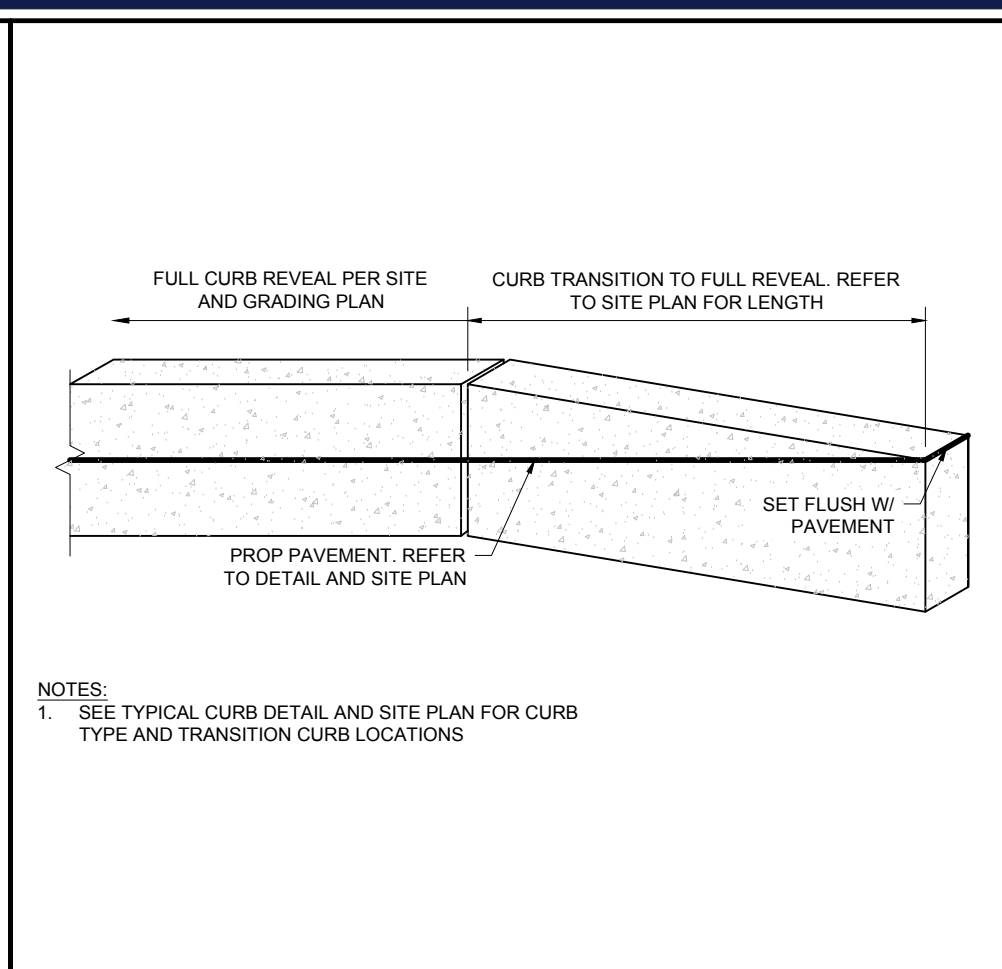
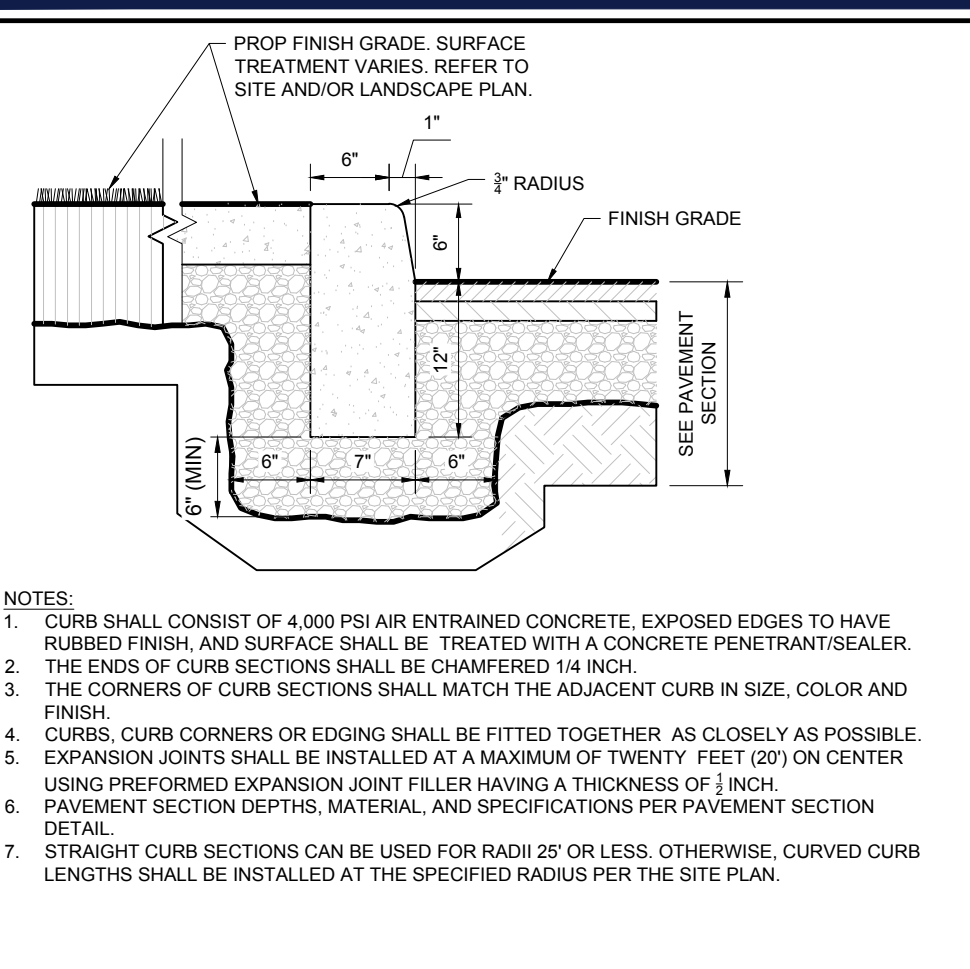
JOHN A. KUCICH  
PROFESSIONAL ENGINEER  
MASS. REG. NO. 15130  
NEW HAVEN, CT 06511  
RHODE ISLAND REG. NO. 9117  
MAINE LICENSE NO. 12553

SHEET TITLE: **EROSION AND SEDIMENT CONTROL NOTES AND DETAILS**

SHEET NUMBER: **C-803**

REVISION 1 - 10/22/2024

P:\2024\MAA240136\02-CAD\DRAWINGS\PLAN SET\CIVIL SITE PLANS\CIV-CND\MS-MAA240136-02-CIV-CND-0803-EROD...-LAYOUT\_C-803.EROD



Restaurant Support Office  
6800 Bishop Road, Plano, TX 75024  
Tele: 972-769-3100 Fax: 972-769-3101

PROTOTYPE ISSUE DATE:

REVISIONS				
REV	DATE	COMMENT	REVISOR	CHECKED BY
1	10/22/2024			

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PROJECT No.: MAA240136.00  
DRAWN BY: CJP  
CHECKED BY: MMA  
DATE: 10/02/2024  
CAD ID: X-CIVL-TTLB

**SITE DEVELOPMENT PLANS**

FOR

PROPOSED DEVELOPMENT

MAP: 39 | BLK: 29 | LOT: 1C  
494 LINCOLN STREET  
WORCESTER COUNTY  
WORCESTER, MASSACHUSETTS

STORE: PROTOTYPE 6-V-AV RESTAURANT #R1233

DESIGNER INFORMATION:

**BOHLER**

352 TURNPIKE ROAD, 3rd FLOOR  
SOUTHBOROUGH, MA 01772  
Phone: (508) 480-9900  
www.BohlerEngineering.com

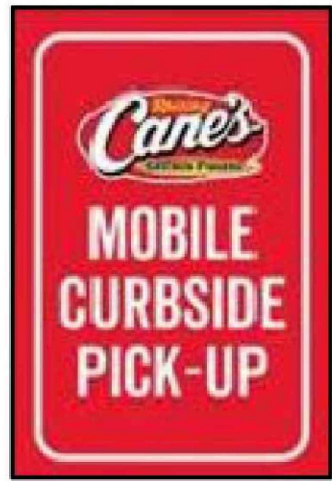
**J.A. KUCICH**  
JOHN A. KUCICH  
CIVIL  
PROFESSIONAL ENGINEER  
MASS. REG. NO. 11530  
NEW HAVEN, CT 06511  
CONTRACT NO. 15476  
RHODE ISLAND LICENSE No. 0616  
MAINE LICENSE No. 12553

SHEET TITLE:  
**CONSTRUCTION DETAILS**

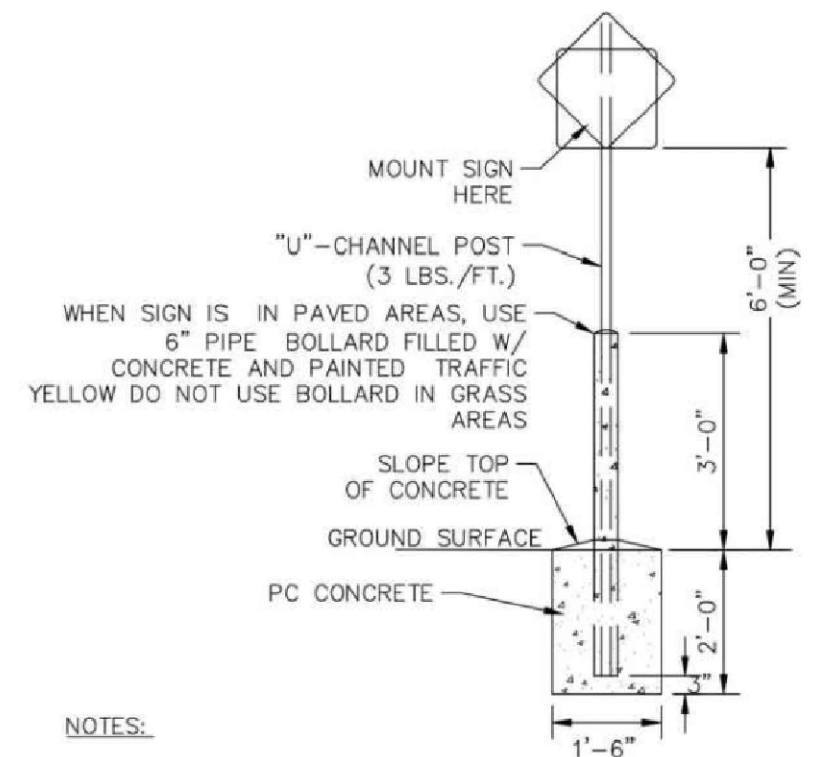
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**C-901**

REVISION 1 - 10/22/2024

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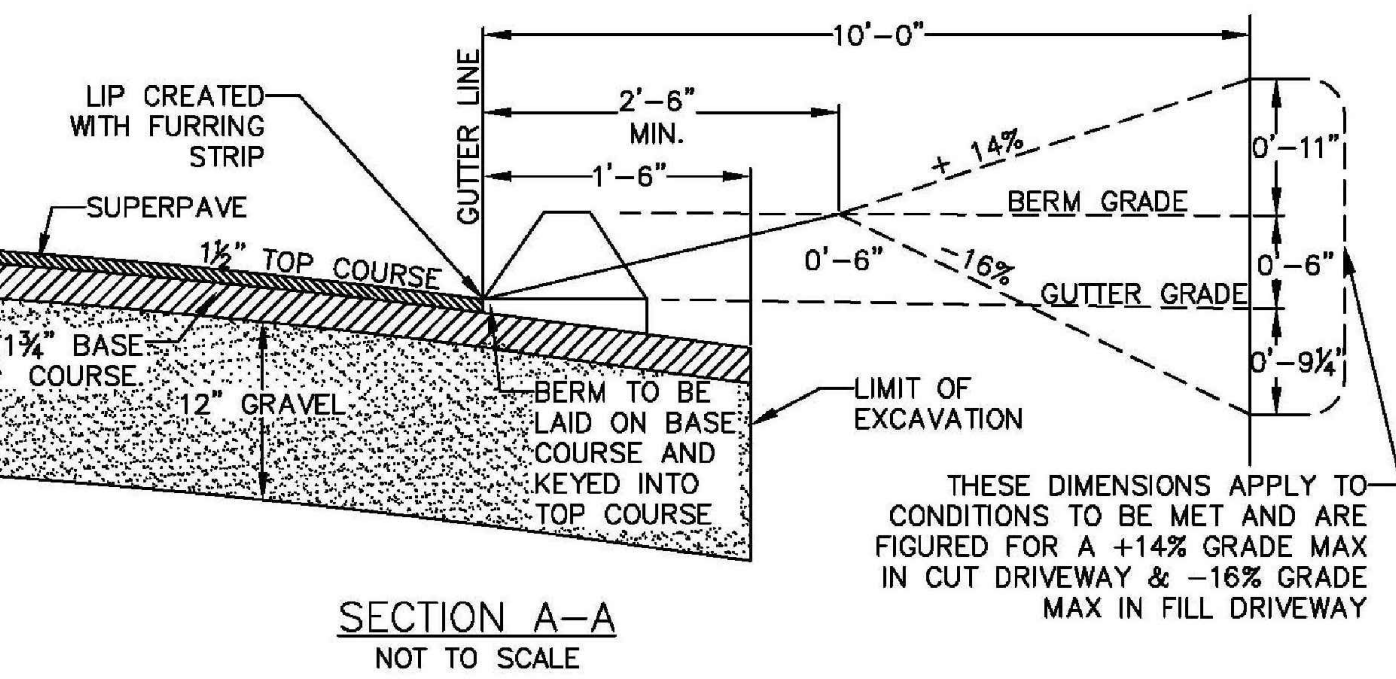
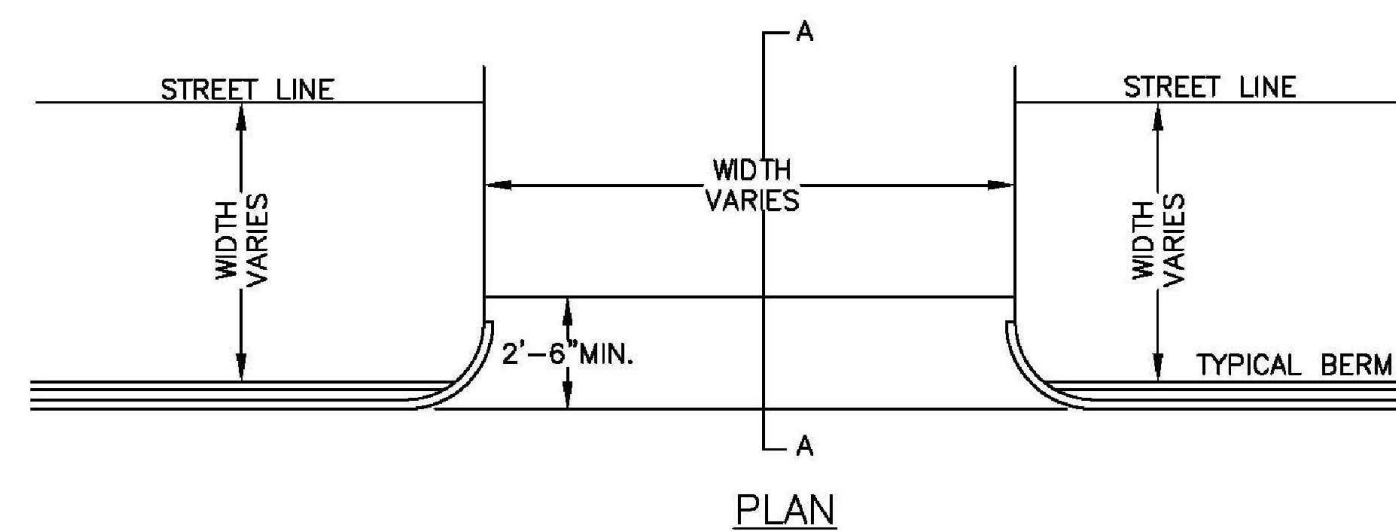
CURBSIDE PICKUP  
12" x 18"



NOTES:  
POLE AND SIGN TO BE PROVIDED AND INSTALLED BY GENERAL CONTRACTOR.  
ALL SIGNS SHALL COMPLY WITH U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION'S "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES", LOCAL CODES AND AS SPECIFIED. MOUNT SIGNS TO POST IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

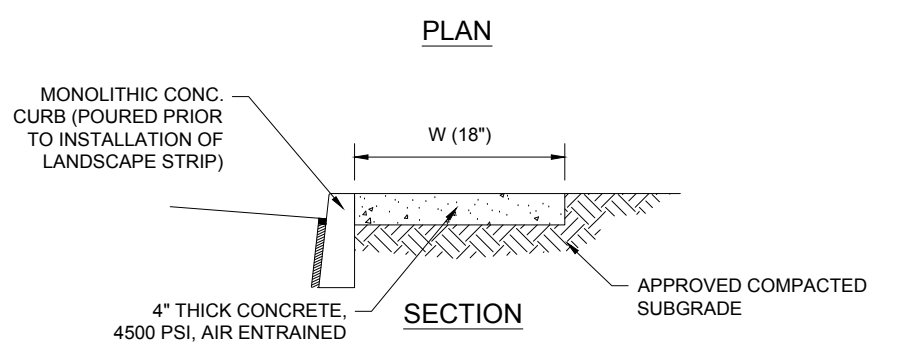
**MOBILE ORDER PICK-UP SIGN**

NE-S010102 - 09/2024 NOT TO SCALE



**CITY OF WORCESTER  
TYPICAL DRIVEWAY DETAIL**

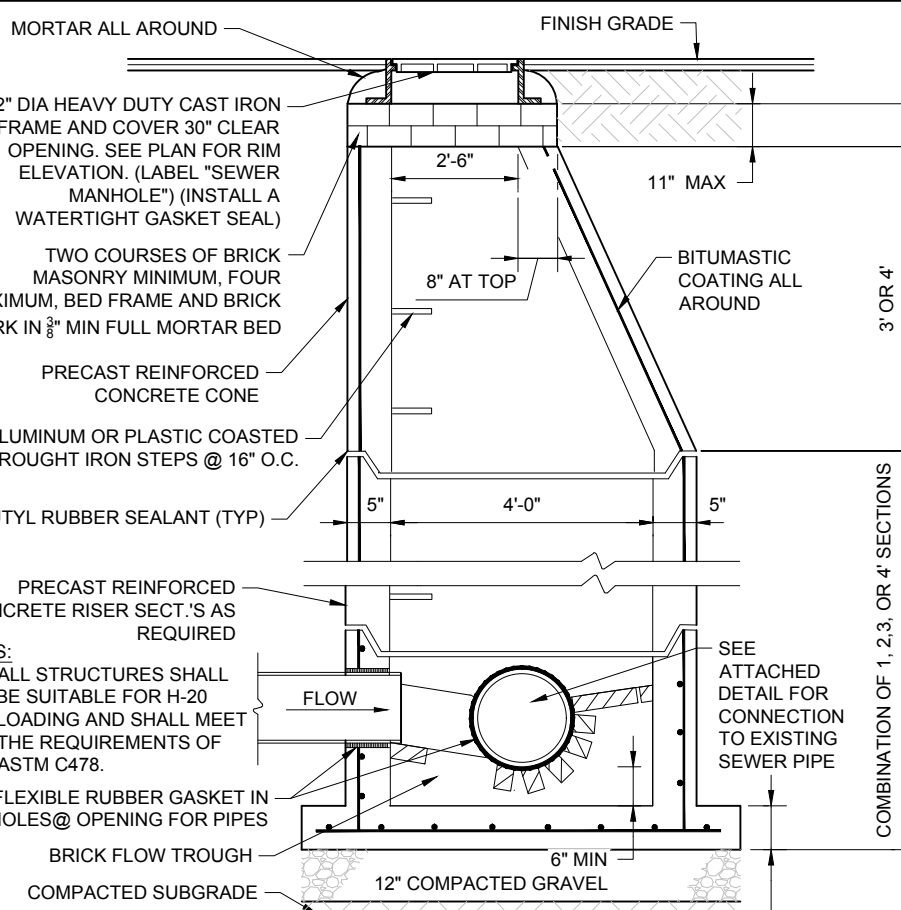
NE-S010102 - 09/2024 NOT TO SCALE



NOTES:  
1. MAX. CROSS SLOPE 1/2" PER FOOT MIN. 1/8" PER FOOT PITCHED TOWARDS ROADWAY.  
2. PROVIDE 1/2" PRESLOTTED BITUMINOUS EXPANSION JOINT AT 12' INTERVALS. TO BE RECESSED 1/4" - 1/2" FROM SIDEWALK SURFACE.  
3. REFER TO SITE PLAN FOR CONCRETE STRIP LENGTH (L).  
4. LONGITUDINAL SLOPE AND WIDTH TO COMPLY WITH ADA BARRIER FREE REQUIREMENTS.

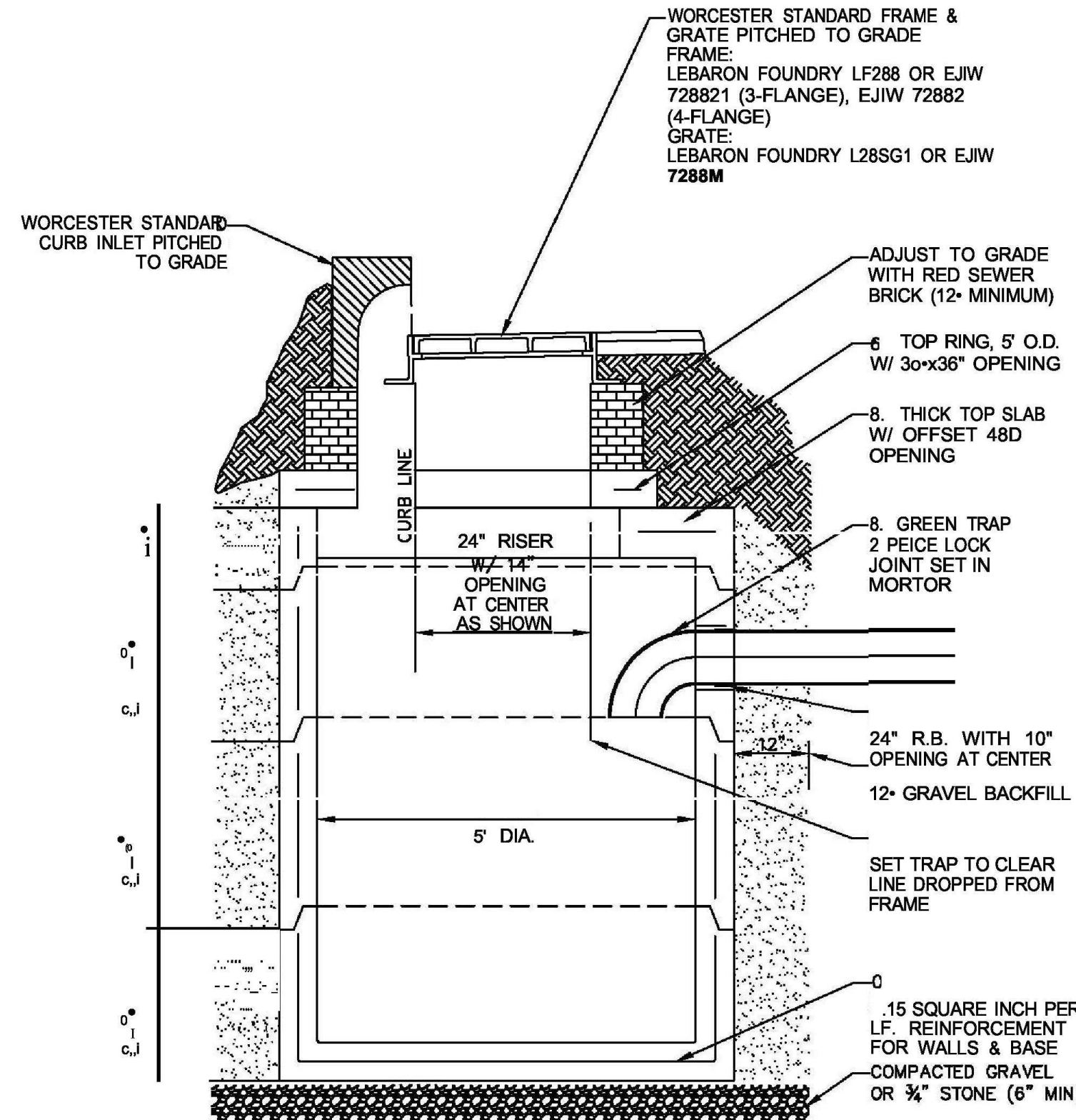
**CONCRETE LANDSCAPE  
PROTECTION STRIP**

NE-S020201 - 09/2023 NOT TO SCALE



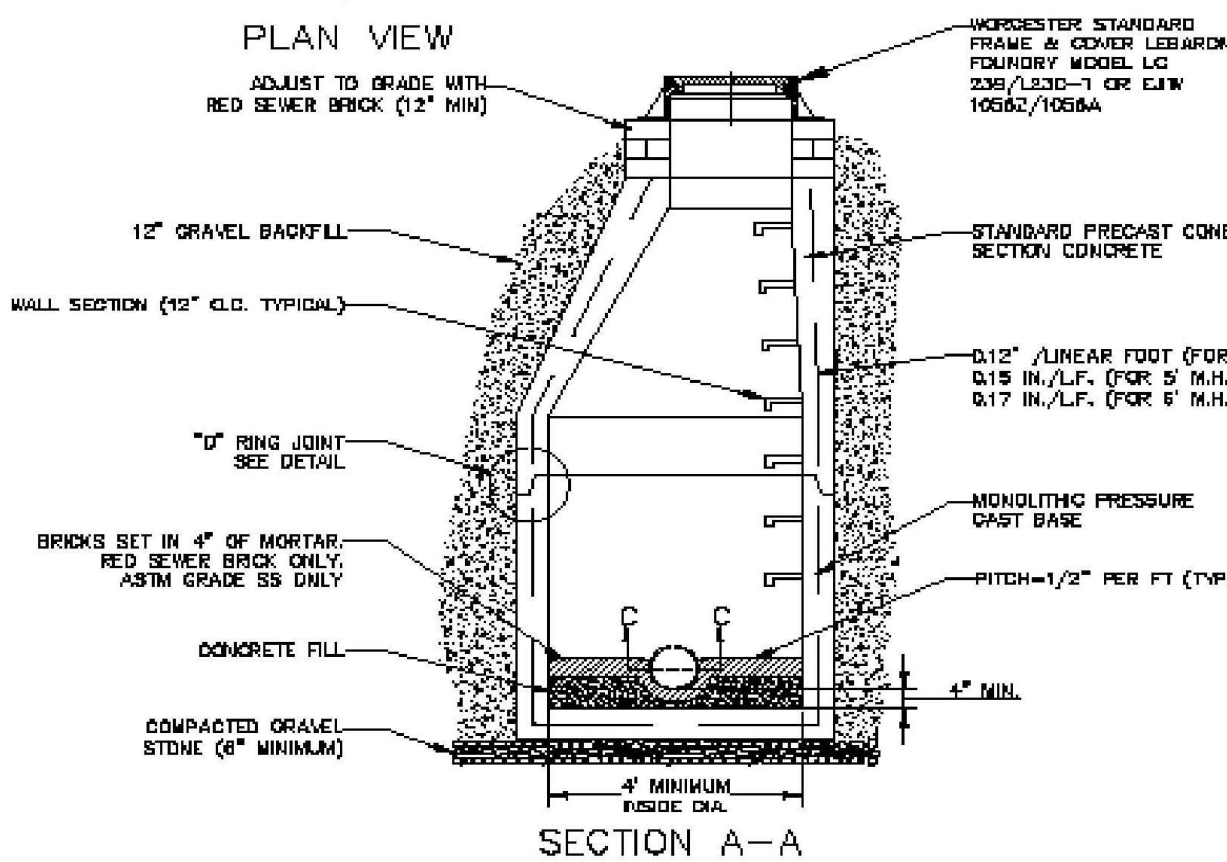
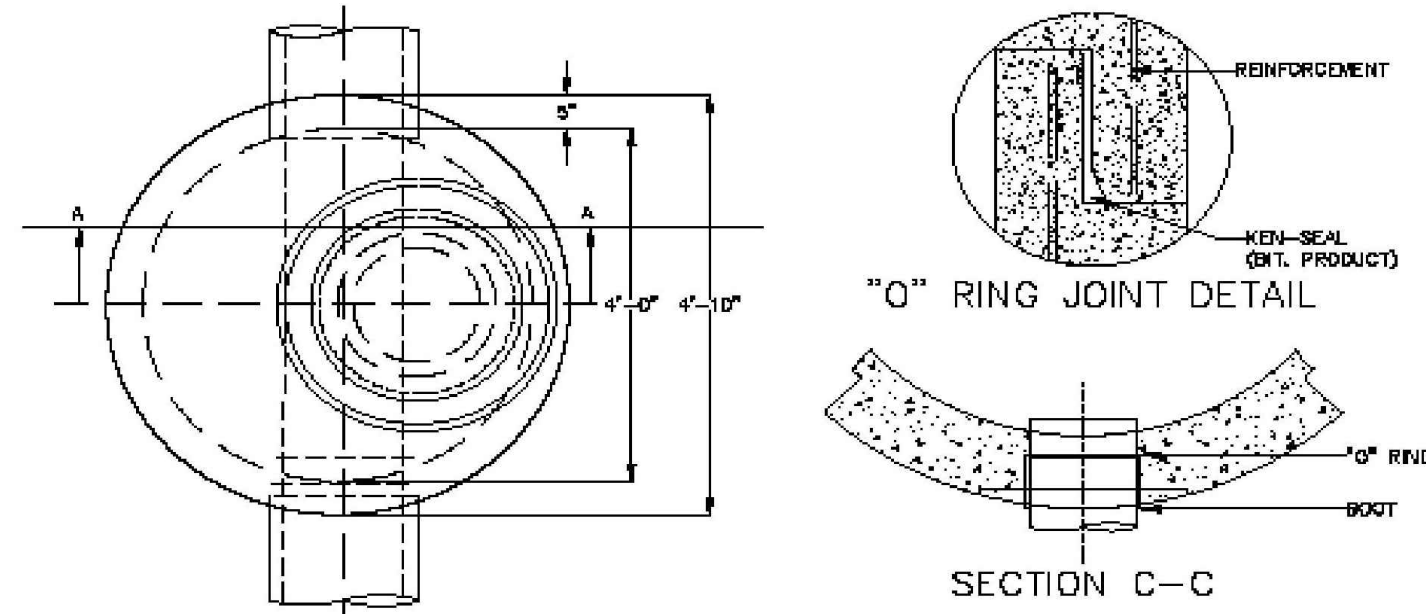
**PRECAST CONCRETE  
SANITARY MANHOLE**

NE-U020101 - 05/2024 NOT TO SCALE



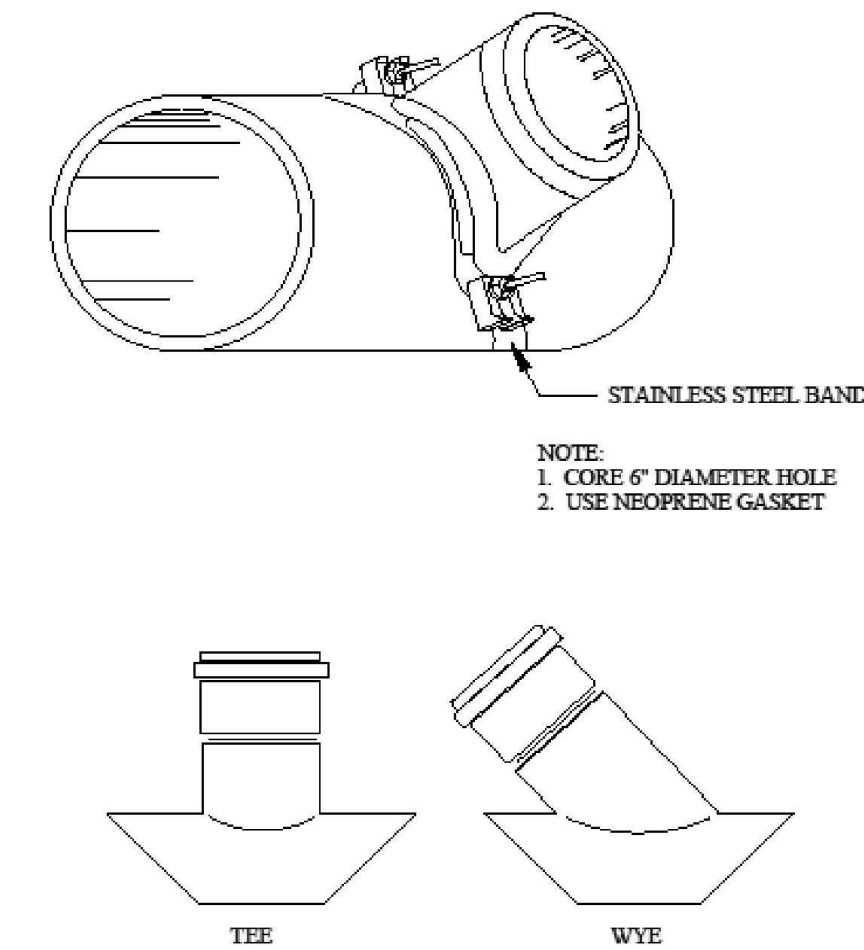
**CITY OF WORCESTER  
TYPICAL PRECAST CATCH BASIN DETAIL**

NE-S010102 - 09/2024 NOT TO SCALE



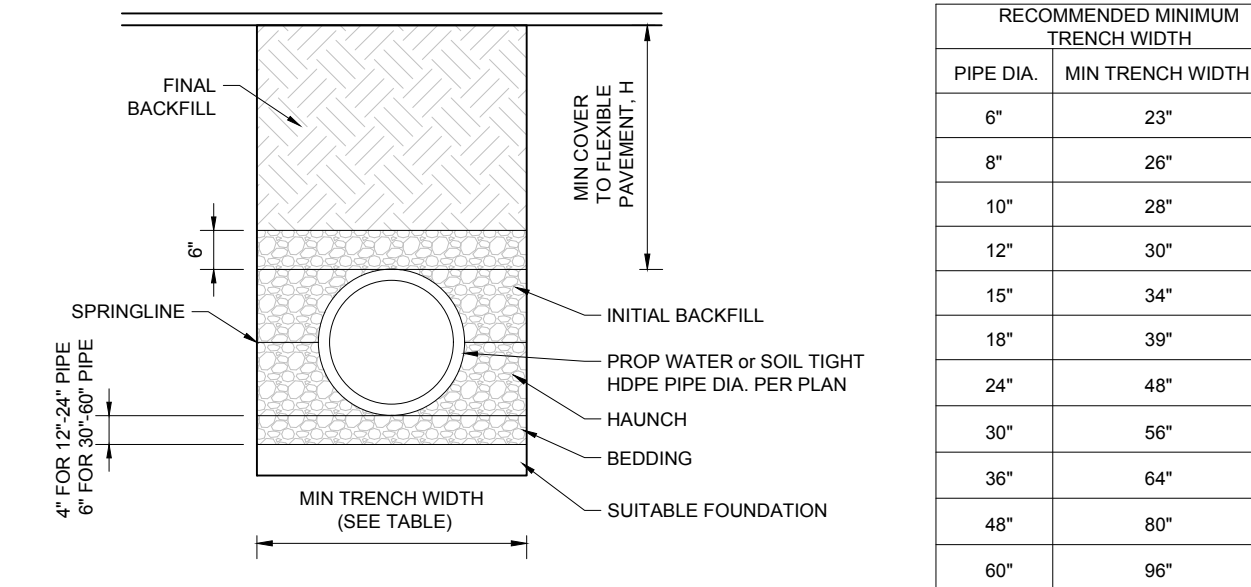
**CITY OF WORCESTER  
TYPICAL PRECAST DRAINAGE MANHOLE DETAIL**

NE-S010102 - 09/2024 NOT TO SCALE



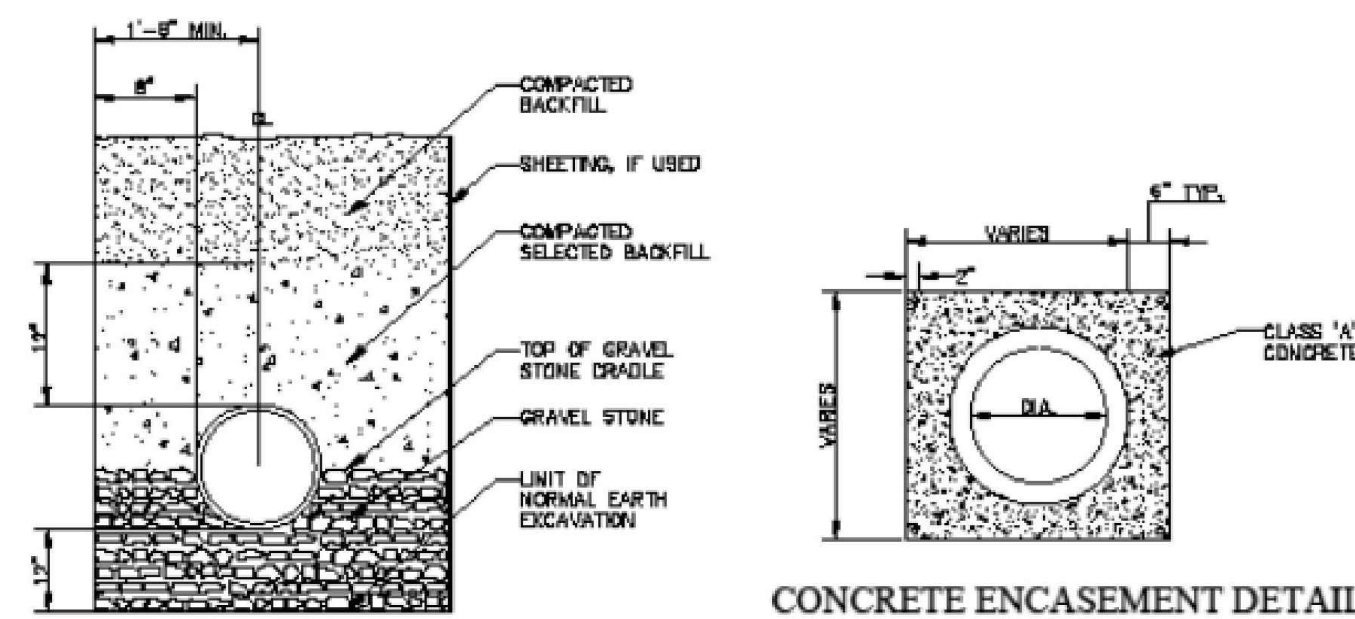
**CITY OF WORCESTER  
TYPICAL WYE & TEE SADDLES FOR LATERAL SEWER CONNECTIONS DETAIL**

NE-S010102 - 09/2024 NOT TO SCALE

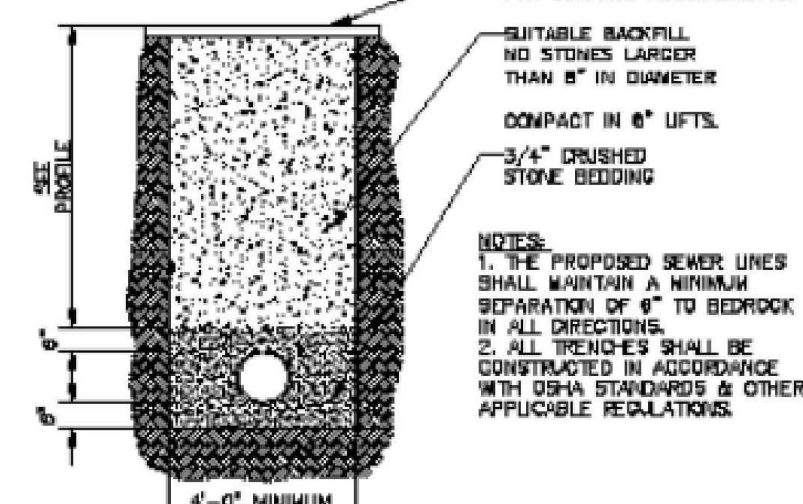


**HDPE STORM PIPE  
TRENCH**

NOT TO SCALE (NE-U019812 - 09/2023)



**TYPICAL DRAIN MAIN TRENCH**



**TYPICAL SEWER MAIN TRENCH**

**CITY OF WORCESTER  
TYPICAL TRENCH DETAIL**

NE-S010102 - 09/2024 NOT TO SCALE



Restaurant Support Office  
6800 Bishop Road, Plano, TX 75024  
Tele: 972-769-3100 Fax: 972-769-3101

PROTOTYPE ISSUE DATE:

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1	10/22/2024	REVISED PER CITY COMMENTS	CJP MMA



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PROJECT No.: MAA240136.00  
DRAWN BY: CJP  
CHECKED BY: MMA  
DATE: 10/02/2024  
CAD ID: X-CIVL-TTLE

PROJECT:

**SITE DEVELOPMENT  
PLANS**

FOR

PROPOSED  
DEVELOPMENT

MAP: 39 | BLK: 29 | LOT: 1C  
494 LINCOLN STREET  
WORCESTER COUNTY  
WORCESTER, MASSACHUSETTS

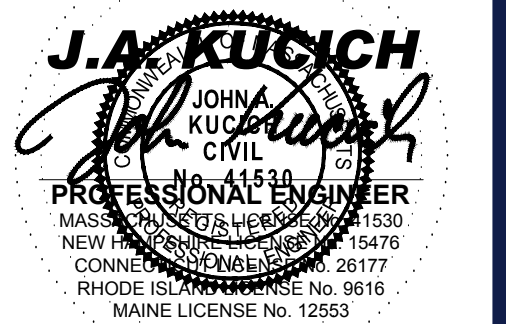
STORE: PROTOTYPE 6-V-AV  
RESTAURANT #RC1233

DESIGNER INFORMATION:



352 TURNPIKE ROAD, 3rd FLOOR  
SOUTHBOROUGH, MA 01772  
Phone: (508) 480-9900

www.BohlerEngineering.com



SHEET TITLE:

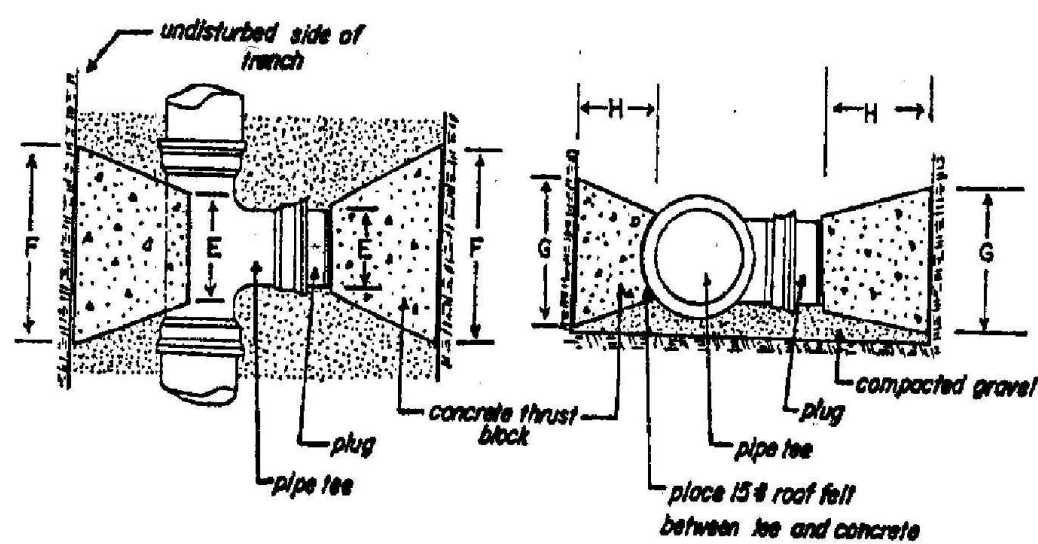
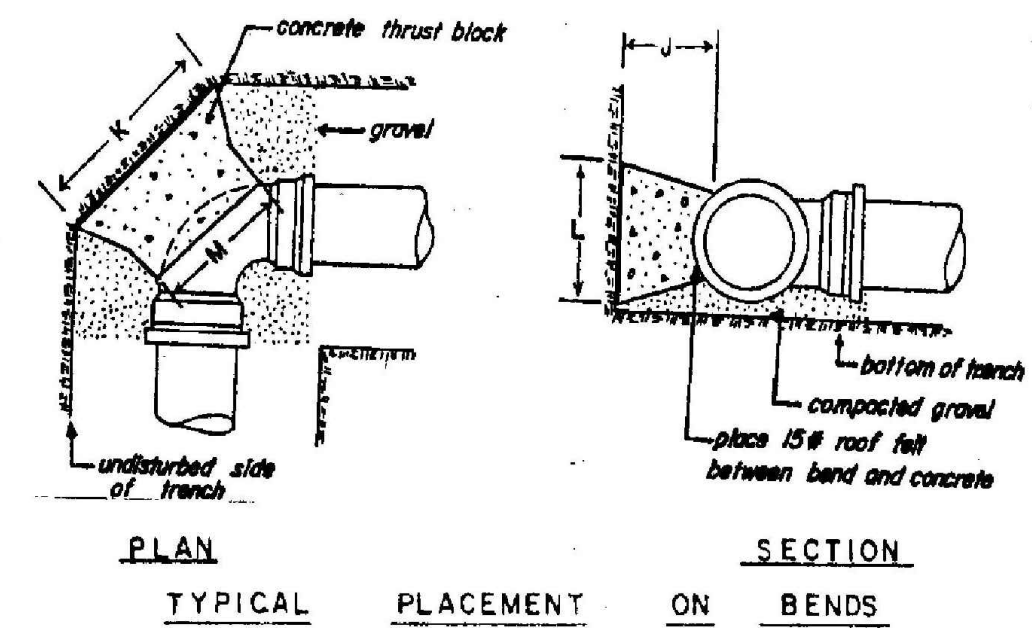
**CONSTRUCTION  
DETAILS**

SHEET NUMBER:

**C-902**

REVISION 1 - 10/22/2024

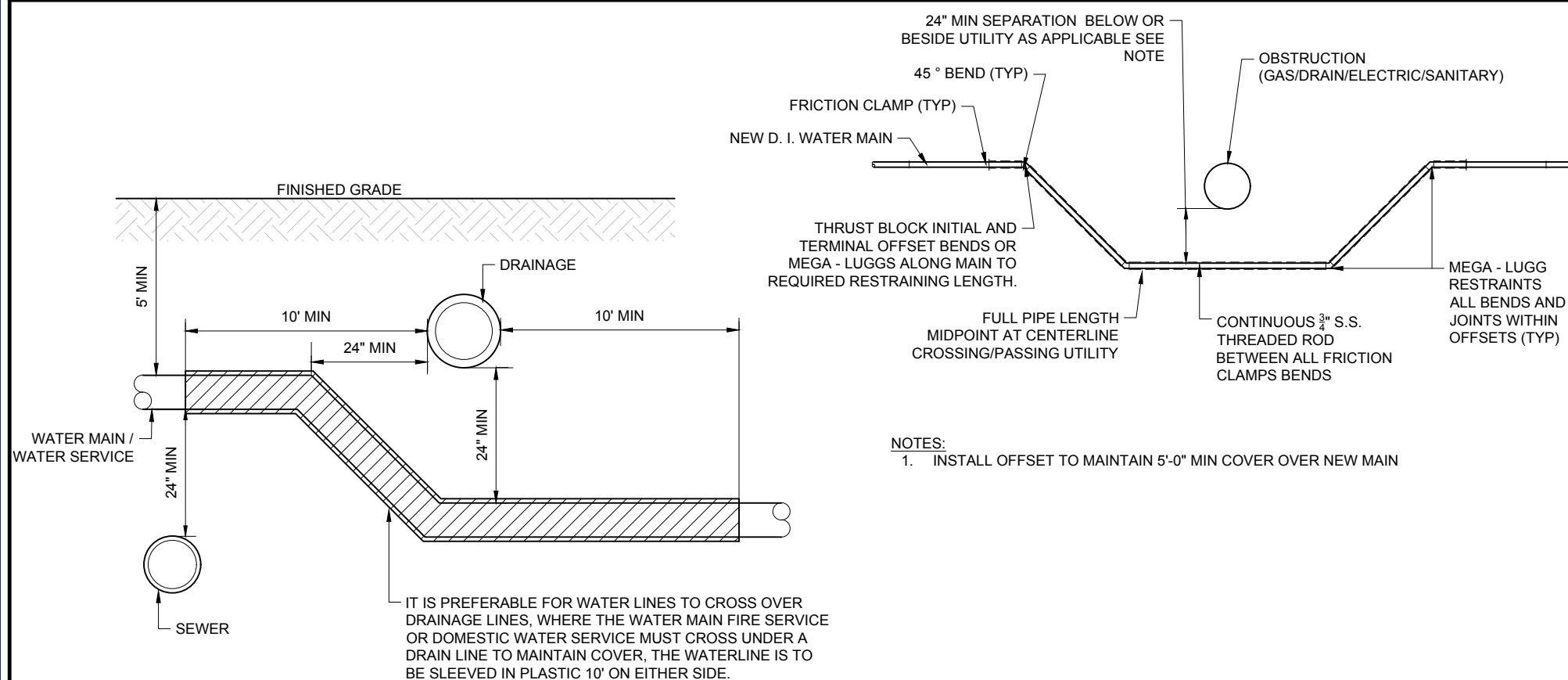
P:\2024\MAA240136\01\CADD\DRAWINGS\PLAN SET\CIVIL\PLANSET-CIVL-CND5-MAA240136-01.dwg - LAYOUT: C-902.DETL



**CITY OF WORCESTER**  
**TYPICAL THRUST BLOCK DETAIL**

NE-S010102 - 09/2024

NOT TO SCALE



**WATER SERVICE OR MAIN AT UTILITY CROSSING**

NOT TO SCALE

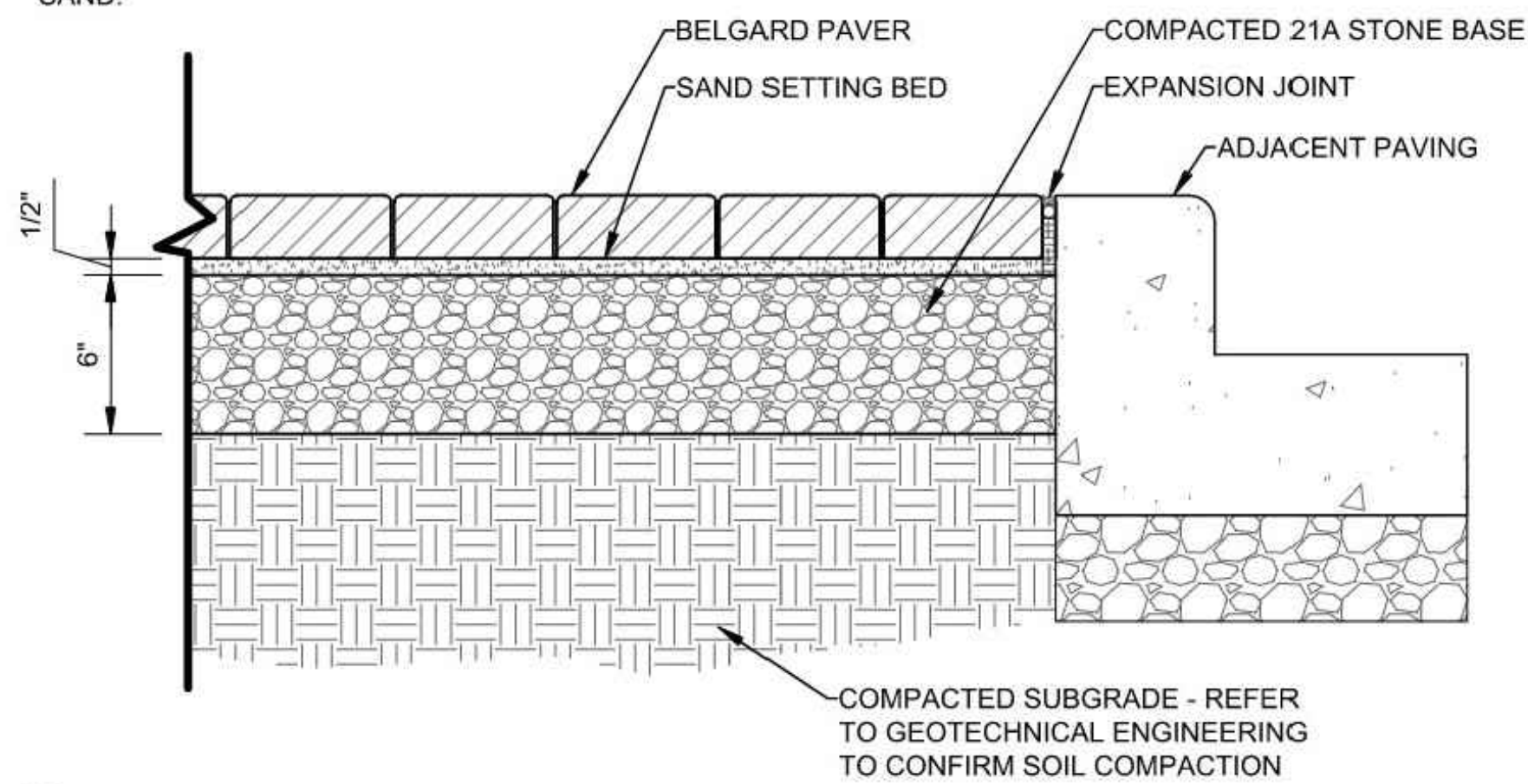
(NE-U050102 - 09/2023)

MANUFACTURER: BELGARD  
PHONE: 877-235-4273  
WEB: WWW.BELGARD.COM

PRODUCT: HOLLAND STONE LEGACY  
COLOR: CHARCOAL OR APPROVED EQUAL  
SIZE: 3 15/16" x 7 7/8" x 2 3/8"

PATTERN: HERRINGBONE

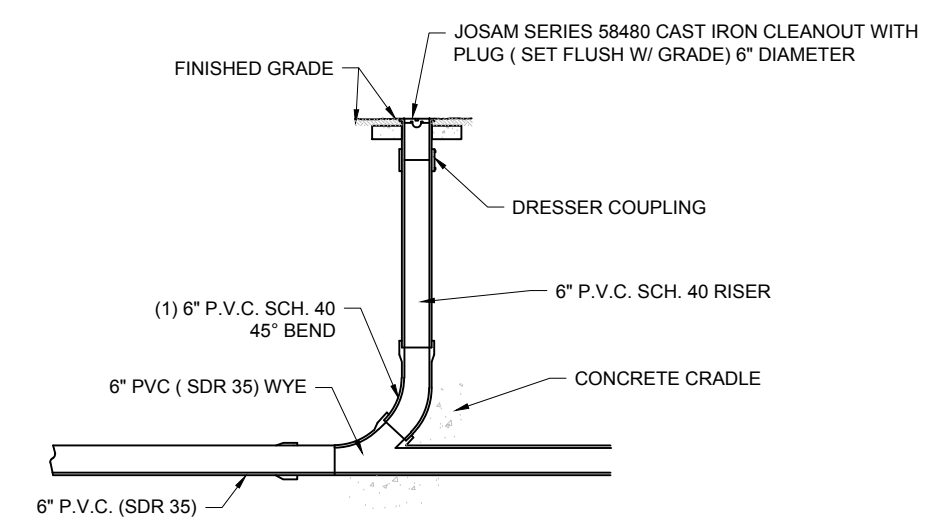
- NOTES:
- PAVER JOINTS TO BE BUTT TIGHT
  - BROOM SWEEP JOINTS WITH POLYMERIC SAND.



**DRIVE-THRU MEDIAN ISLAND PAVERS**

NOT TO SCALE

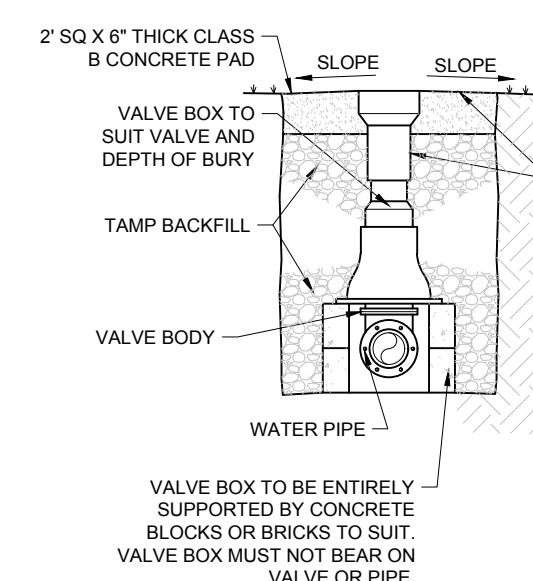
NE-S010102 - 09/2024



**CLEANOUT (IN-LINE)**

NOT TO SCALE

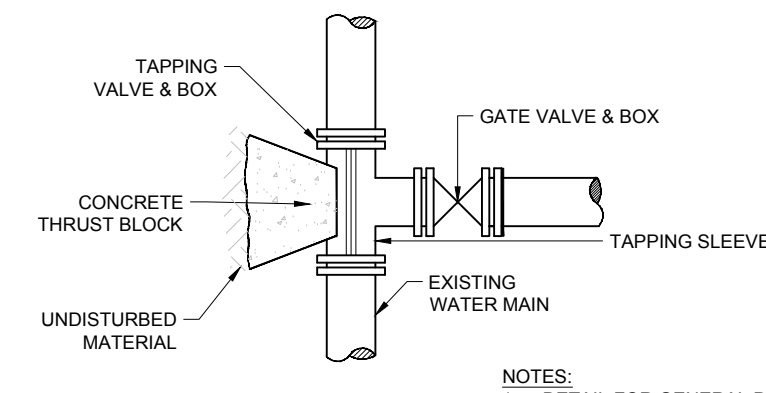
(NE-U03002 - 09/2023)



**GATE VALVE**

NOT TO SCALE

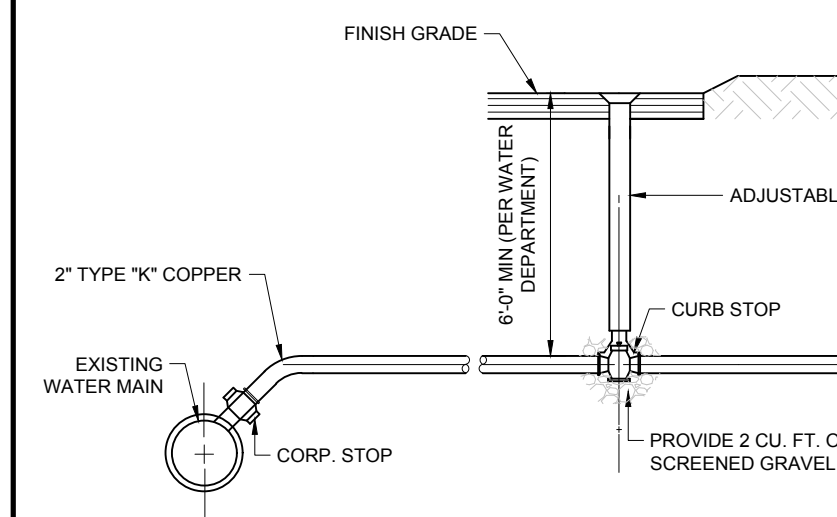
(NE-U030201 - 09/2023)



**TAPPING SLEEVE AND GATE VALVE**

NOT TO SCALE

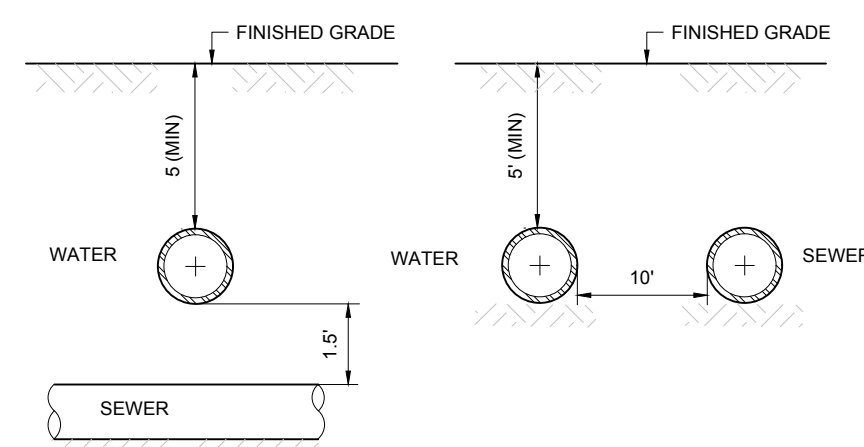
(NE-U030401 - 09/2023)



**TYPE K COPPER WATER SERVICE CONNECTION**

NOT TO SCALE

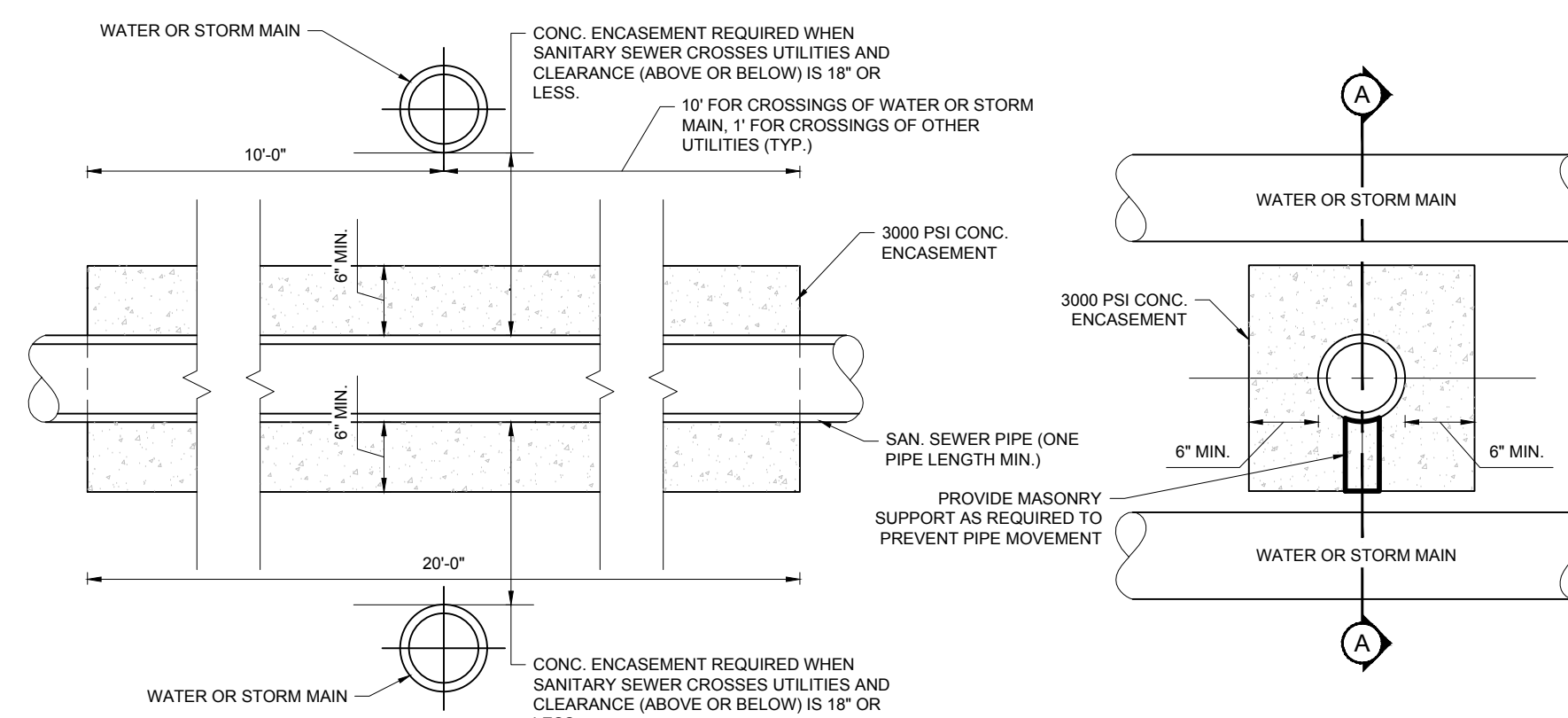
(NE-U030402 - 09/2023)



**WATER AND SEWER UTILITY CROSSING**

NOT TO SCALE

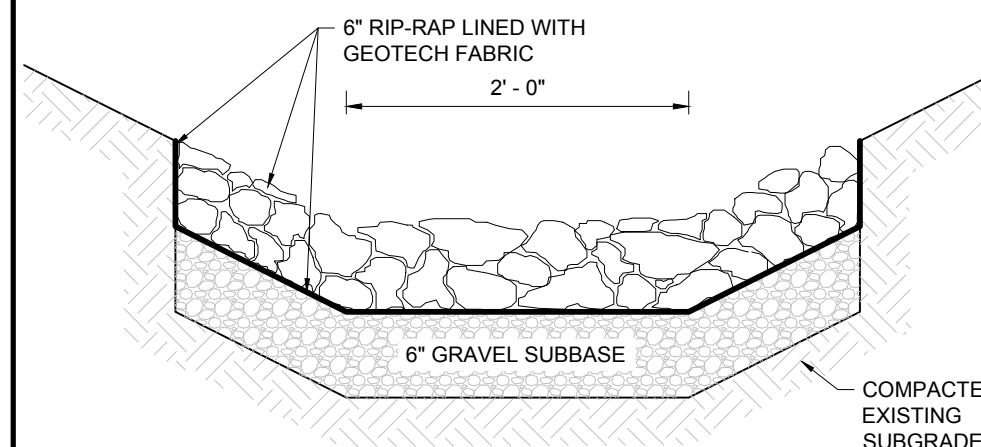
(NE-U050101 - 09/2023)



**SANITARY CONCRETE ENCASEMENT**

NOT TO SCALE

(BE-U029901 - 04/2024)



**RIP-RAP SWALE**

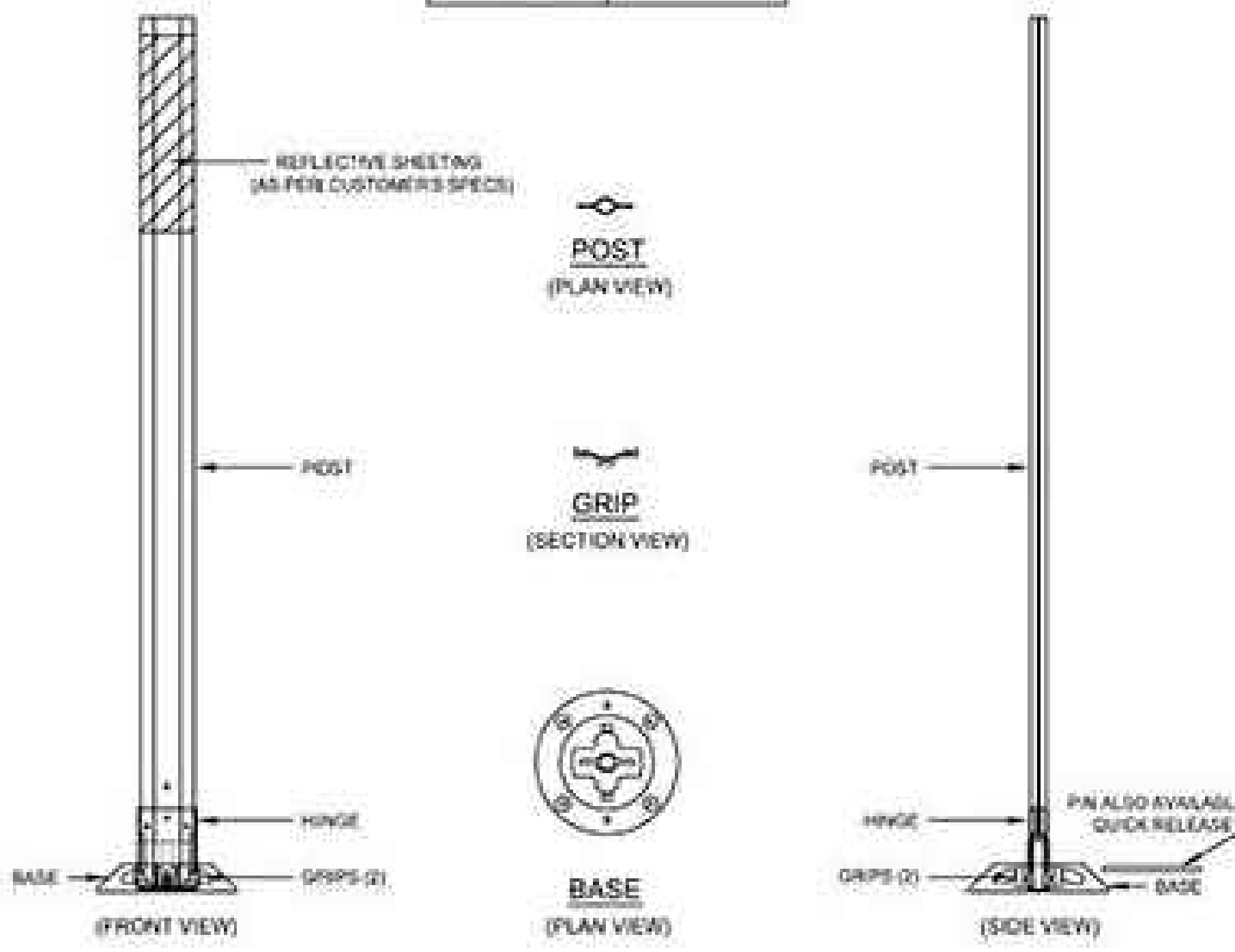
NOT TO SCALE

(NE-G020102 - 09/2023)

**FLEXSTAKE SM700 SERIES SURFACE MOUNT DELINEATOR**

CATALOG NO.	PRODUCT LENGTH
701	18"
702	24"
703	30"
704	36"
705	48"
706	60"

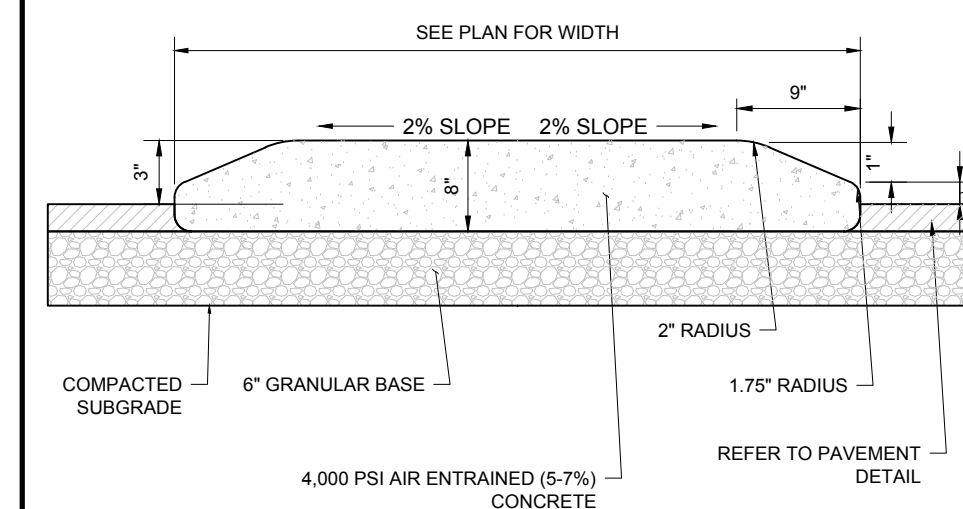
DETAIL REFERENCE:  
DETAIL PROVIDED/PREPARED BY OTHERS AND IS FROM FLEXSTAKE.COM



**FLEXIBLE DELINEATOR (FLEXSTAKE SM700 SERIES)**

NOT TO SCALE

NE-S010102 - 09/2024



**MOUNTABLE MONOLITHIC CONCRETE ISLAND**

NOT TO SCALE

(NE-S010703 - 09/2024)



Restaurant Support Office  
6800 Bishop Road, Plano, TX 75024  
Tele: 972-769-3100 Fax: 972-769-3101

PROTOTYPE ISSUE DATE:

**REVISIONS**

REV	DATE	COMMENT	CHECKED BY	DRAWN BY
1	10/22/2024	REVISED PER CITY COMMENTS	CJP	MMA



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ALWAYS CALL 811  
It's fast. It's free. It's the law.

**ENTITLEMENT SET**

THIS DRAWING IS INTENDED FOR MUNICIPAL AND/OR AGENCY REVIEW AND APPROVAL. IT IS NOT INTENDED AS A CONSTRUCTION DOCUMENT UNLESS INDICATED OTHERWISE.

PROJECT No.: MAA240136.00  
DRAWN BY: CJP  
CHECKED BY: MMA  
DATE: 10/03/2024  
CAD ID: X-CIVL-TTLB

**SITE DEVELOPMENT PLANS**

FOR

PROPOSED DEVELOPMENT

MAP: 39 | BLK: 29 | LOT: 1C  
494 LINCOLN STREET  
WORCESTER COUNTY  
WORCESTER, MASSACHUSETTS

STORE: PROTOTYPE 6-V-AV RESTAURANT #RC1233

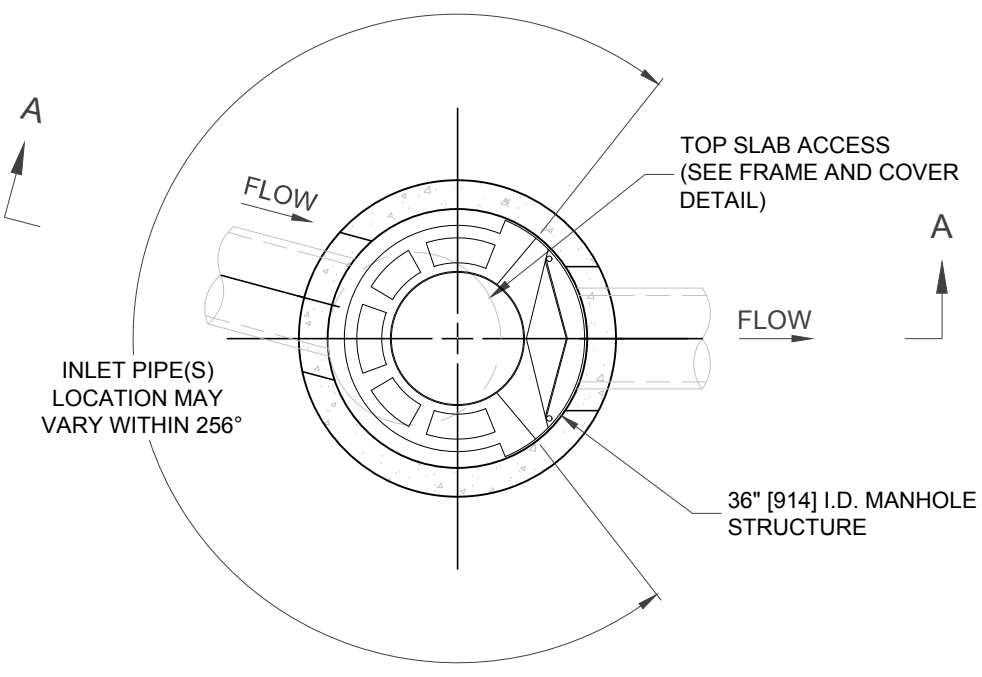
DESIGNER INFORMATION:  
**BOHLER**  
352 TURNPIKE ROAD, 3rd FLOOR  
SOUTHBOROUGH, MA 01772  
Phone: (508) 480-9900  
www.BohlerEngineering.com

**J.A. KUCICH**  
JOHN A. KUCICH  
CIVIL  
PROFESSIONAL ENGINEER  
MASS. REG. NO. 15130  
NEW HAVEN, CT REG. NO. 15476  
CONN. REG. NO. 09177  
RHODE ISLAND REG. NO. 0616  
MAINE LICENSE NO. 12553

**CONSTRUCTION DETAILS**

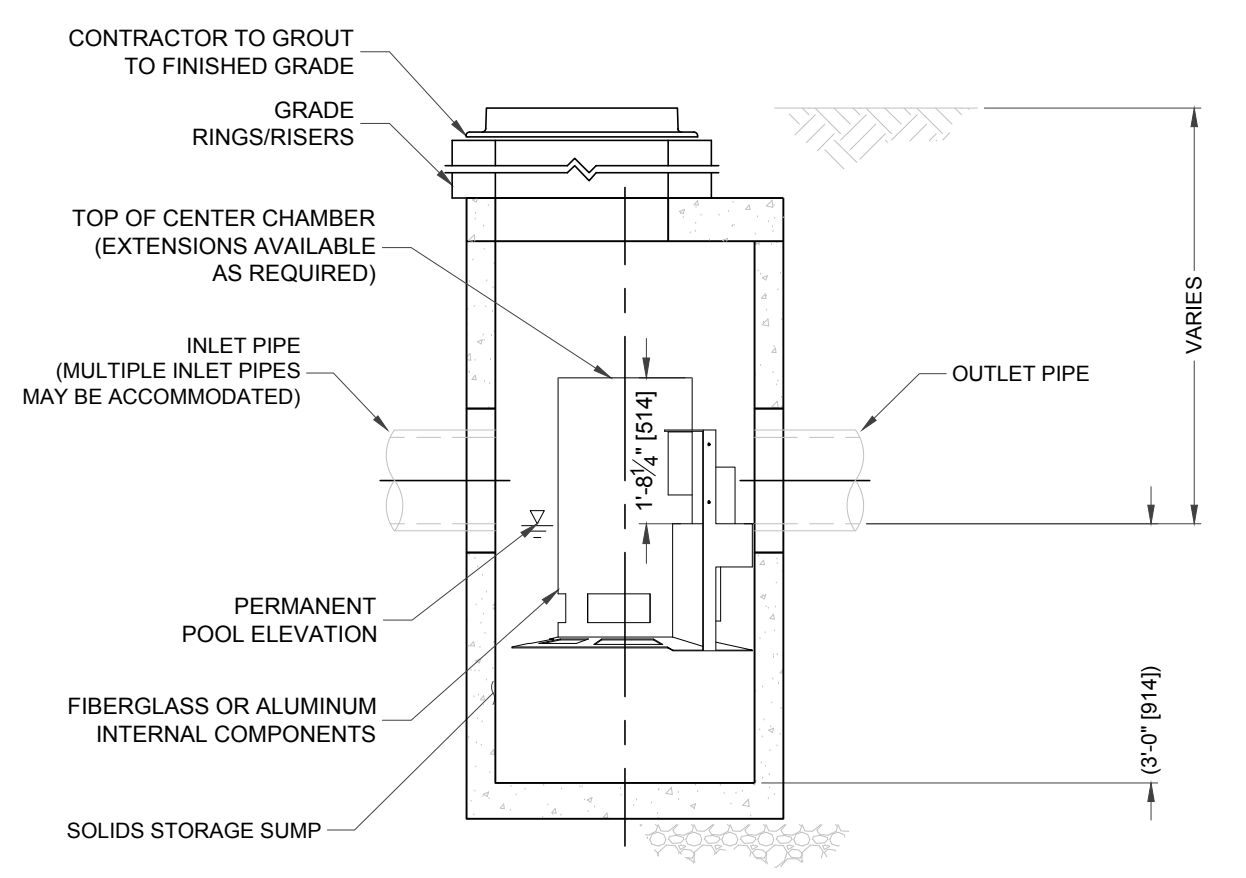
SHEET NUMBER:  
**C-903**

REVISION 1 - 10/22/2024

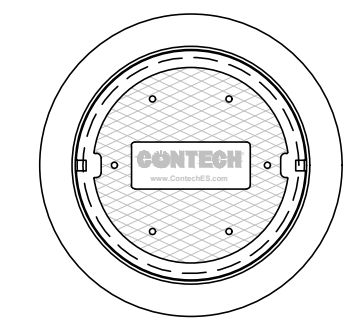


**PLAN VIEW B-B**  
NOT TO SCALE

- GENERAL NOTES**
1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
  2. FOR SITE SPECIFIC DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEERING SOLUTIONS LLC REPRESENTATIVE. [www.conteches.com](http://www.conteches.com)
  3. CASCADE SEPARATOR WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT.
  4. CASCADE SEPARATOR STRUCTURE SHALL MEET AASHTO H200 LOAD RATING, ASSUMING EARTH COVER OF 0' - 2' (610), AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO M306 AND BE CAST WITH THE CONTECH LOGO.
  5. CASCADE SEPARATOR STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C478 AND AASHTO LOAD FACTOR DESIGN METHOD.
  6. ALTERNATE UNITS ARE SHOWN IN MILLIMETERS [mm].
- INSTALLATION NOTES**
- A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
  - B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CASCADE SEPARATOR MANHOLE STRUCTURE.
  - C. CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS AND ASSEMBLE STRUCTURE.
  - D. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT INLET AND OUTLET PIPES. MATCH PIPE INVERTS WITH ELEVATIONS SHOWN. ALL PIPE CENTERLINES TO MATCH PIPE OPENING CENTERLINES.
  - E. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.



**ELEVATION A-A**  
NOT TO SCALE



**FRAME AND COVER**  
(DIAMETER VARIES)  
NOT TO SCALE

SITE SPECIFIC DATA REQUIREMENTS			
STRUCTURE ID	A-30		
WATER QUALITY FLOW RATE (cfs [L/s])	0.87		
PEAK FLOW RATE (cfs [L/s])	9.52		
RETURN PERIOD OF PEAK FLOW (yrs)	25		
RIM ELEVATION	558.77		
PIPE DATA:			
	INVERT	MATERIAL	DIAMETER
INLET PIPE 1	552.58	PVC	12"
INLET PIPE 2	552.10	HDPE	15"
OUTLET PIPE	552.00	HDPE	15"
NOTES / SPECIAL REQUIREMENTS:			

**CONTECH WQU A-30 (CASCADE SEPARATOR MODEL CS-4)**

NE-5010102 - 10/2024

NOT TO SCALE



Restaurant Support Office  
6800 Bishop Road, Plano, TX 75024  
Tele: 972-769-3100 Fax: 972-769-3101

PROTOTYPE ISSUE DATE:

**REVISIONS**

REV	DATE	COMMENT	CHECKED BY
1	10/22/2024	REVISED PER CITY COMMENTS	CJP MMA



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PROJECT No.: MAA240136.00  
DRAWN BY: CJP  
CHECKED BY: MMA  
DATE: 10/03/2024  
CAD ID: X-CIVL-TTLB

**SITE DEVELOPMENT PLANS**

FOR  
  
PROPOSED DEVELOPMENT  
  
MAP: 39 | BLK: 29 | LOT: 1C  
494 LINCOLN STREET  
WORCESTER COUNTY  
WORCESTER, MASSACHUSETTS

STORE: PROTOTYPE 6-V-AV RESTAURANT #RC1233

DESIGNER INFORMATION:  
**BOHLER //**  
352 TURNPIKE ROAD, 3rd FLOOR  
SOUTHBOROUGH, MA 01772  
Phone: (508) 480-9900  
[www.BohlerEngineering.com](http://www.BohlerEngineering.com)

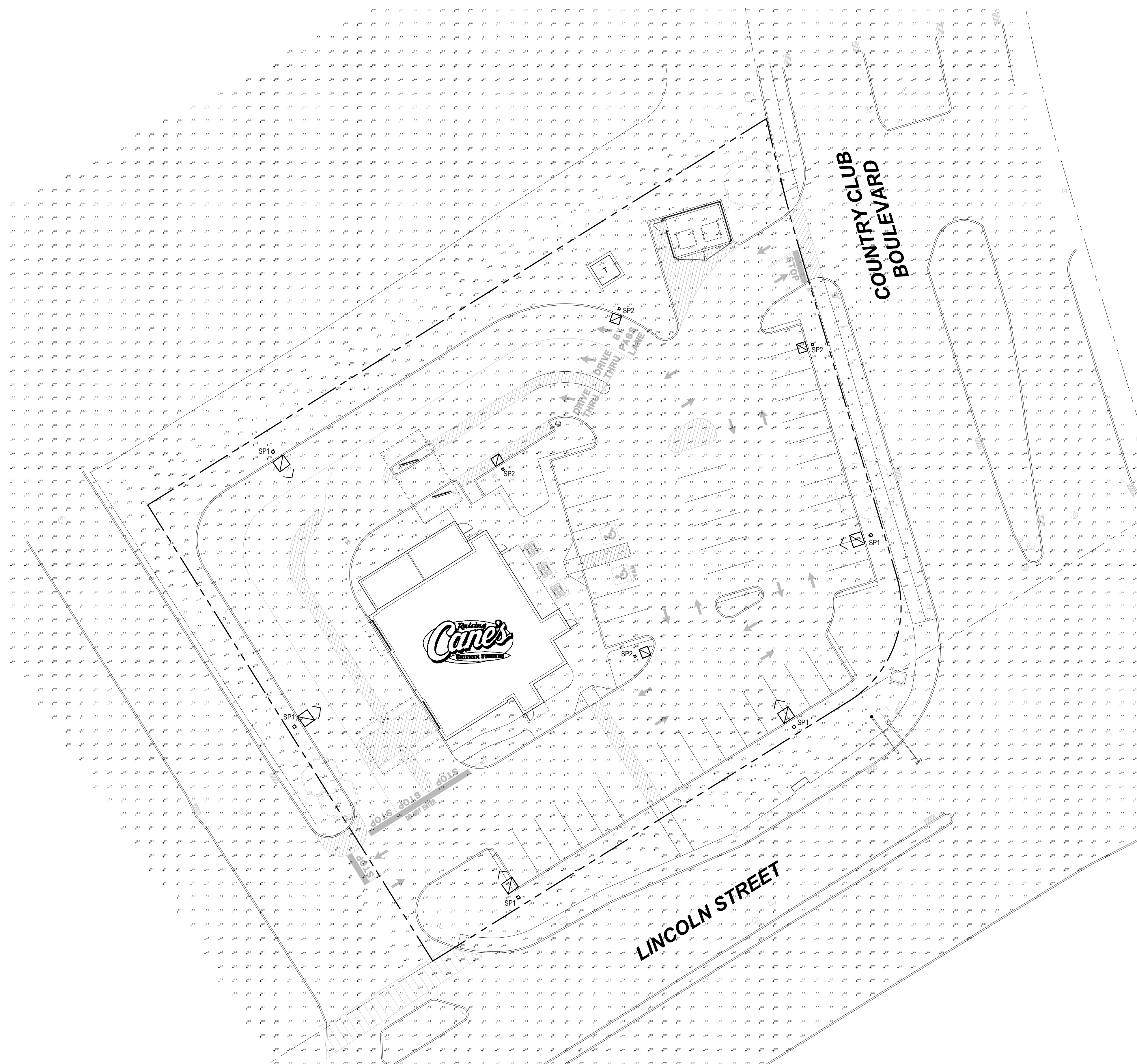


**CONSTRUCTION DETAILS**

SHEET NUMBER:  
**C-904**

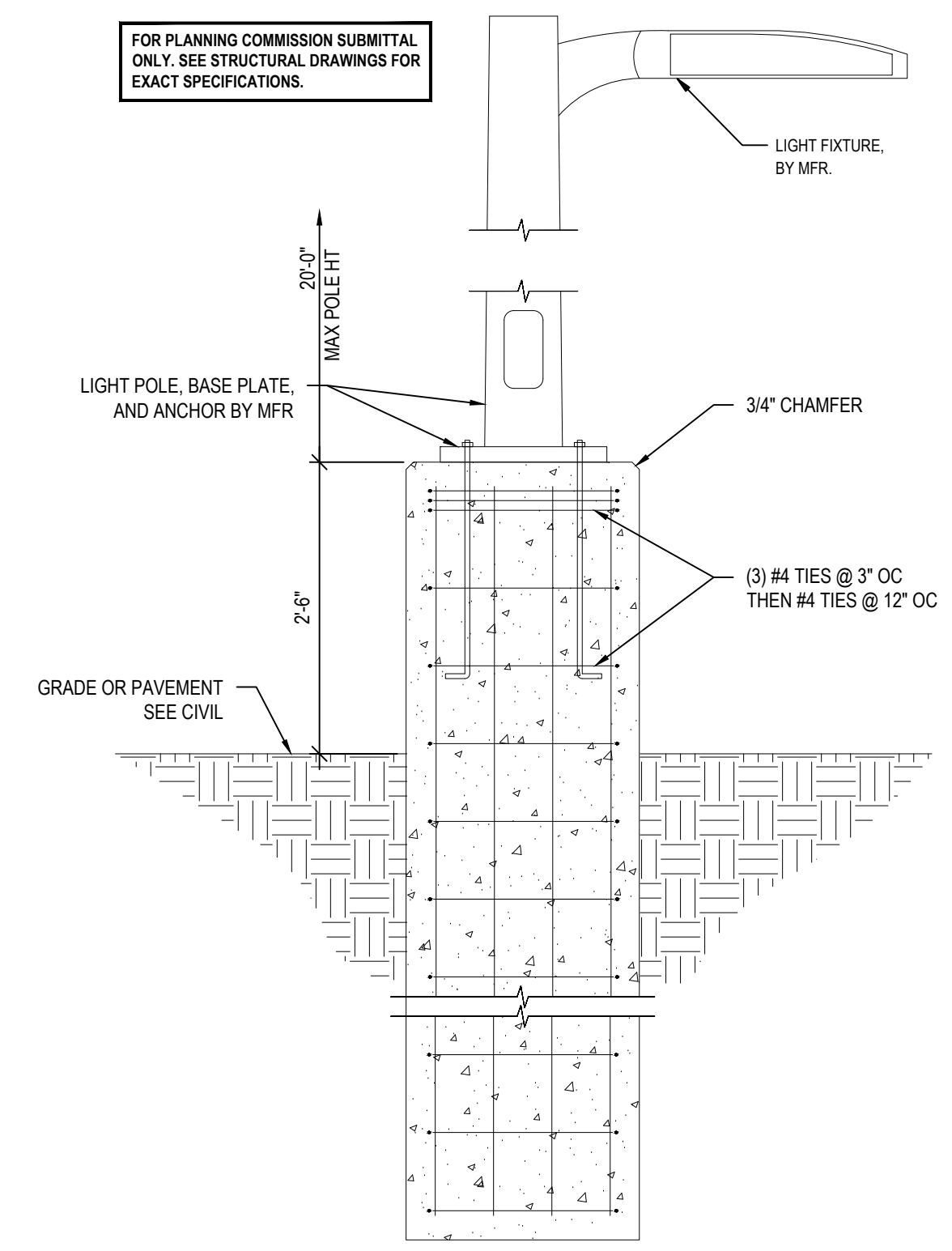
REVISION 1 - 10/22/2024

P:\2024\MAA240136\03\CAD\DRAWINGS\PLAN SET\TRICIVIL SITE PLANS\SP-CIVL-CND5-MAA240136-9040-CP.LAYOUT1.C-904.DETL CP



EXTERIOR LIGHTING FIXTURE SCHEDULE				
TYPE	LAMP	WATTS	DESCRIPTION	CATALOG NO.
SP1	LED	102	LED POLE MOUNTED FIXTURE WITH TYPE IV MEDIUM DISTRIBUTION & DARK BRONZE FINISH. MOUNTED ON A 20' TALL SQUARE STRAIGHT STEEL POLE.	LITHONIA# DSX1-LED-P3-30K-T4M-MVOLT- SPA-DDBXD POLE - LITHONIA# SSS-20-5G-DM19AS-DDBXD
SP2	LED	102	LED POLE MOUNTED FIXTURE WITH TYPE V MEDIUM DISTRIBUTION & DARK BRONZE FINISH. MOUNTED ON A 20' TALL SQUARE STRAIGHT STEEL POLE.	LITHONIA# DSX1-LED-P3-30K-T5M-MVOLT- SPA-DDBXD POLE - LITHONIA# SSS-20-5G-DM19AS-DDBXD

STATISTICS (VALUES ARE MAINTAINED)					
Description	Avg	Max	Min	Max/Min	Avg/Min
PARKING FIELD	2.0 fc	3.4 fc	0.9 fc	3.8:1	2.2:1
PROPERTY LINE	0.1 fc	1.6 fc	0.0 fc	N/A	N/A



1 PH1.0 TYPICAL LIGHT POLE BASE DETAIL  
SCALE: 3/4"=1'-0"



STORE:  
**RAISING CANE'S RESTAURANT**  
494 LINCOLN ST.  
WORCESTER, MA 01605  
PROTOTYPE: P6-V-Av  
SCHEME: B  
RESTAURANT #RC1233



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ENGINEER INFORMATION:

SHEET REVISIONS		
#	DATE	TYPE
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

**PHOTOMETRIC SITE PLAN**

DATE: 10/1/2024  
JOB NO. 24164

**PH1.0**  
SHEET NO.

N PHOTOMETRIC SITE PLAN  
SCALE 1" = 20'-0"



Restaurant Support Office  
6800 Bishop Road, Plains, NY 75024  
Tel: 912-769-3100 Fax: 912-769-3101

STORE:  
**RAISING CANE'S RESTAURANT**  
494 LINCOLN ST.  
WORCESTER, MA 01605  
PROTOTYPE: P6-V-16  
SCHEME: B  
RESTAURANT #RC1233



1770 Detroit Avenue  
Lakewood, Ohio 44107  
Phone (216) 521-5134 Fax (216) 521-4624  
www.adaarchitects.com

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ENGINEER INFORMATION:

SHEET REVISIONS

#	DATE	TYPE
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

**EXTERIOR LIGHT FIXTURE CUT SHEETS**

DATE: 10/1/2024

JOB NO. 24164

**PH1.1**

SHEET NO.

### D-Series Size 1 LED Area Luminaire

Fixture Type SP1

**Specifications**

EPA: 0.69 ft² (0.06 m²)  
Length: 32.71" (83.1 cm)  
Width: 14.26" (36.2 cm)  
Height H1: 7.88" (20.0 cm)  
Height H2: 2.73" (6.9 cm)  
Weight: 34 lbs (15.4 kg)

**Ordering Information**

**EXAMPLE: DSX1 LED P7 40K 70CRI T3M MVOLT SPA NLTAIR2 PIRHN DDBXD**

DSX1 LED	P3	30K	70CRI	T4M	MVOLT	SPA
Series	LEDs	Color temperature¹	Color Rendering Index²	Distribution	Voltage	Mounting
DSX1 LED	Forward optics P1 P6 P2 P7 P3 P8 P4 P9 P5 Rotated optics P10¹ P12¹ P11¹ P13¹	(this section 70CRI only) 30K 3000K 40K 4000K 50K 5000K	(this section 70CRI only) 70CRI	Automotive front row T15 Type I short T2M Type II medium T3M Type III medium T4M Type IV medium TALG Type IV low glare¹	MVOLT (120V-277V) <sup>16</sup> HVOLT (48V-480V) <sup>16</sup> XVOLT (277V-480V) <sup>16</sup> 120 v.l. 208 v.l. 240 v.l. 277 v.l. 347 v.l. 480 v.l.	Shipped included SPA Square pole mounting (#8 drilling) RPA Round pole mounting (#8 drilling) SPAS Square pole mounting (#5 drilling) RPAS Round pole mounting (#5 drilling) SPRAN Square canopy pole mounting (#8 drilling) WBA Wall bracket¹ MA Max arm adapter (mounts on 2.318" OD horizontal tenon)

**Control options**

Control options	Other options	Finish¹	DDBXD
<b>Shipped installed</b> NLTAIR2 PIRHN All light AIR gas 2 enabled with bi-level motion / ambient sensor. 8-40" mounting height, ambient sensor enabled at 26". PIR High-low motion/ambient sensor. 8-40" mounting height, ambient sensor enabled at 26". PER NLMA twist lock receptacle only (controls ordered separately) <sup>1,3</sup> PERS Five-pin receptacle only (controls ordered separately) <sup>1,3</sup>	PER7 Seven-pin receptacle only (controls ordered separately) <sup>1,3</sup> FAO Field adjustable output¹,³,¹² BL30 Bi-level switched dimming. 30% v.l. BL30 Bi-level switched dimming. 50% v.l. DMG 0-10v dimming wires pulled under fixture (for use with an external control, ordered separately) <sup>1,3</sup> DS Dual switching¹,³,¹²	DDBXD Dark Bronze DLBK Black DNAXD Natural Aluminum DWBWD White DDBRD Textured dark bronze DLBLD Textured black DNATD Textured natural aluminum DWHGD Textured white	DDBXD Dark Bronze DLBK Black DNAXD Natural Aluminum DWBWD White DDBRD Textured dark bronze DLBLD Textured black DNATD Textured natural aluminum DWHGD Textured white

¹ Refer to the table for mounting height on all mounting types.  
² Refer to the table for mounting height on all mounting types.  
³ Refer to the table for mounting height on all mounting types.  
¹² Refer to the table for mounting height on all mounting types.

### D-Series Size 1 LED Area Luminaire

Fixture Type SP2

**Specifications**

EPA: 0.69 ft² (0.06 m²)  
Length: 32.71" (83.1 cm)  
Width: 14.26" (36.2 cm)  
Height H1: 7.88" (20.0 cm)  
Height H2: 2.73" (6.9 cm)  
Weight: 34 lbs (15.4 kg)

**Ordering Information**

**EXAMPLE: DSX1 LED P7 40K 70CRI T3M MVOLT SPA NLTAIR2 PIRHN DDBXD**

DSX1 LED	P3	30K	70CRI	T5M	MVOLT	SPA
Series	LEDs	Color temperature¹	Color Rendering Index²	Distribution	Voltage	Mounting
DSX1 LED	Forward optics P1 P6 P2 P7 P3 P8 P4 P9 P5 Rotated optics P10¹ P12¹ P11¹ P13¹	(this section 70CRI only) 30K 3000K 40K 4000K 50K 5000K	(this section 70CRI only) 70CRI	Automotive front row T15 Type I short T2M Type II medium T3M Type III medium T4M Type IV medium TALG Type IV low glare¹	MVOLT (120V-277V) <sup>16</sup> HVOLT (48V-480V) <sup>16</sup> XVOLT (277V-480V) <sup>16</sup> 120 v.l. 208 v.l. 240 v.l. 277 v.l. 347 v.l. 480 v.l.	Shipped included SPA Square pole mounting (#8 drilling) RPA Round pole mounting (#8 drilling) SPAS Square pole mounting (#5 drilling) RPAS Round pole mounting (#5 drilling) SPRAN Square canopy pole mounting (#8 drilling) WBA Wall bracket¹ MA Max arm adapter (mounts on 2.318" OD horizontal tenon)

**Control options**

Control options	Other options	Finish¹	DDBXD
<b>Shipped installed</b> NLTAIR2 PIRHN All light AIR gas 2 enabled with bi-level motion / ambient sensor. 8-40" mounting height, ambient sensor enabled at 26". PIR High-low motion/ambient sensor. 8-40" mounting height, ambient sensor enabled at 26". PER NLMA twist lock receptacle only (controls ordered separately) <sup>1,3</sup> PERS Five-pin receptacle only (controls ordered separately) <sup>1,3</sup>	PER7 Seven-pin receptacle only (controls ordered separately) <sup>1,3</sup> FAO Field adjustable output¹,³,¹² BL30 Bi-level switched dimming. 30% v.l. BL30 Bi-level switched dimming. 50% v.l. DMG 0-10v dimming wires pulled under fixture (for use with an external control, ordered separately) <sup>1,3</sup> DS Dual switching¹,³,¹²	DDBXD Dark Bronze DLBK Black DNAXD Natural Aluminum DWBWD White DDBRD Textured dark bronze DLBLD Textured black DNATD Textured natural aluminum DWHGD Textured white	DDBXD Dark Bronze DLBK Black DNAXD Natural Aluminum DWBWD White DDBRD Textured dark bronze DLBLD Textured black DNATD Textured natural aluminum DWHGD Textured white

### D-Series Size 1 LED Area Luminaire

Fixture Type SP2

**Specifications**

EPA: 0.69 ft² (0.06 m²)  
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Width: 14.26" (36.2 cm)  
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**Ordering Information**

**EXAMPLE: DSX1 LED P7 40K 70CRI T3M MVOLT SPA NLTAIR2 PIRHN DDBXD**

DSX1 LED	P3	30K	70CRI	T5M	MVOLT	SPA
Series	LEDs	Color temperature¹	Color Rendering Index²	Distribution	Voltage	Mounting
DSX1 LED	Forward optics P1 P6 P2 P7 P3 P8 P4 P9 P5 Rotated optics P10¹ P12¹ P11¹ P13¹	(this section 70CRI only) 30K 3000K 40K 4000K 50K 5000K	(this section 70CRI only) 70CRI	Automotive front row T15 Type I short T2M Type II medium T3M Type III medium T4M Type IV medium TALG Type IV low glare¹	MVOLT (120V-277V) <sup>16</sup> HVOLT (48V-480V) <sup>16</sup> XVOLT (277V-480V) <sup>16</sup> 120 v.l. 208 v.l. 240 v.l. 277 v.l. 347 v.l. 480 v.l.	Shipped included SPA Square pole mounting (#8 drilling) RPA Round pole mounting (#8 drilling) SPAS Square pole mounting (#5 drilling) RPAS Round pole mounting (#5 drilling) SPRAN Square canopy pole mounting (#8 drilling) WBA Wall bracket¹ MA Max arm adapter (mounts on 2.318" OD horizontal tenon)

**Control options**

Control options	Other options	Finish¹	DDBXD
<b>Shipped installed</b> NLTAIR2 PIRHN All light AIR gas 2 enabled with bi-level motion / ambient sensor. 8-40" mounting height, ambient sensor enabled at 26". PIR High-low motion/ambient sensor. 8-40" mounting height, ambient sensor enabled at 26". PER NLMA twist lock receptacle only (controls ordered separately) <sup>1,3</sup> PERS Five-pin receptacle only (controls ordered separately) <sup>1,3</sup>	PER7 Seven-pin receptacle only (controls ordered separately) <sup>1,3</sup> FAO Field adjustable output¹,³,¹² BL30 Bi-level switched dimming. 30% v.l. BL30 Bi-level switched dimming. 50% v.l. DMG 0-10v dimming wires pulled under fixture (for use with an external control, ordered separately) <sup>1,3</sup> DS Dual switching¹,³,¹²	DDBXD Dark Bronze DLBK Black DNAXD Natural Aluminum DWBWD White DDBRD Textured dark bronze DLBLD Textured black DNATD Textured natural aluminum DWHGD Textured white	DDBXD Dark Bronze DLBK Black DNAXD Natural Aluminum DWBWD White DDBRD Textured dark bronze DLBLD Textured black DNATD Textured natural aluminum DWHGD Textured white

### D-Series Size 1 LED Area Luminaire

Fixture Type SP2

**Specifications**

EPA: 0.69 ft² (0.06 m²)  
Length: 32.71" (83.1 cm)  
Width: 14.26" (36.2 cm)  
Height H1: 7.88" (20.0 cm)  
Height H2: 2.73" (6.9 cm)  
Weight: 34 lbs (15.4 kg)

**Ordering Information**

**EXAMPLE: DSX1 LED P7 40K 70CRI T3M MVOLT SPA NLTAIR2 PIRHN DDBXD**

DSX1 LED	P3	30K	70CRI	T5M	MVOLT	SPA
Series	LEDs	Color temperature¹	Color Rendering Index²	Distribution	Voltage	Mounting
DSX1 LED	Forward optics P1 P6 P2 P7 P3 P8 P4 P9 P5 Rotated optics P10¹ P12¹ P11¹ P13¹	(this section 70CRI only) 30K 3000K 40K 4000K 50K 5000K	(this section 70CRI only) 70CRI	Automotive front row T15 Type I short T2M Type II medium T3M Type III medium T4M Type IV medium TALG Type IV low glare¹	MVOLT (120V-277V) <sup>16</sup> HVOLT (48V-480V) <sup>16</sup> XVOLT (277V-480V) <sup>16</sup> 120 v.l. 208 v.l. 240 v.l. 277 v.l. 347 v.l. 480 v.l.	Shipped included SPA Square pole mounting (#8 drilling) RPA Round pole mounting (#8 drilling) SPAS Square pole mounting (#5 drilling) RPAS Round pole mounting (#5 drilling) SPRAN Square canopy pole mounting (#8 drilling) WBA Wall bracket¹ MA Max arm adapter (mounts on 2.318" OD horizontal tenon)

**Control options**

Control options	Other options	Finish¹	DDBXD
<b>Shipped installed</b> NLTAIR2 PIRHN All light AIR gas 2 enabled with bi-level motion / ambient sensor. 8-40" mounting height, ambient sensor enabled at 26". PIR High-low motion/ambient sensor. 8-40" mounting height, ambient sensor enabled at 26". PER NLMA twist lock receptacle only (controls ordered separately) <sup>1,3</sup> PERS Five-pin receptacle only (controls ordered separately) <sup>1,3</sup>	PER7 Seven-pin receptacle only (controls ordered separately) <sup>1,3</sup> FAO Field adjustable output¹,³,¹² BL30 Bi-level switched dimming. 30% v.l. BL30 Bi-level switched dimming. 50% v.l. DMG 0-10v dimming wires pulled under fixture (for use with an external control, ordered separately) <sup>1,3</sup> DS Dual switching¹,³,¹²	DDBXD Dark Bronze DLBK Black DNAXD Natural Aluminum DWBWD White DDBRD Textured dark bronze DLBLD Textured black DNATD Textured natural aluminum DWHGD Textured white	DDBXD Dark Bronze DLBK Black DNAXD Natural Aluminum DWBWD White DDBRD Textured dark bronze DLBLD Textured black DNATD Textured natural aluminum DWHGD Textured white

### Ordering Information

**Accessories**

**Shield Accessories**

**Drilling**

**Tenon Mounting Slipfitter**

**DSX1 Area Luminaire - EPA**

¹ Refer to the table for mounting height on all mounting types.  
² Refer to the table for mounting height on all mounting types.  
³ Refer to the table for mounting height on all mounting types.  
¹² Refer to the table for mounting height on all mounting types.

**External Glass Shield (EGSR)**

**House Side Shield (HS)**

**Handhole Orientation**

**Top of Pole**

**DSX1 Area Luminaire - EPA**

Feature Quantity & Mounting Configuration	Single DSX1	2 x 180 DSX1	2 x 90 DSX1	3 x 90 DSX1	3 x 120 DSX1	4 x 90 DSX1
DSX1 with SPA	0.69	1.38	1.23	1.54	---	1.58
DSX1 with SPAS, SPRAN	0.70	1.40	1.30	1.66	---	1.68
DSX1 with RPA, RPAS	0.70	1.40	1.30	1.66	1.60	1.68
DSX1 with MA	0.83	1.66	1.50	2.09	2.09	2.09

### Photometric Diagrams

Use these beam footcandle plots for the DSX1 LED P7 40K 70CRI. Distances are in units of mounting height (25').

### Performance Data

**Lumen Ambient Temperature (LAT) Multipliers**

**Electrical Load**

**Projected LED Lumen Maintenance**

**FAO Dimming Settings**

**Motion Sensor Default Settings**

**Controls Options**

¹ Refer to the table for mounting height on all mounting types.  
² Refer to the table for mounting height on all mounting types.  
³ Refer to the table for mounting height on all mounting types.  
¹² Refer to the table for mounting height on all mounting types.

### Performance Data

**Lumen Output**

**Forward Optics**

¹ Refer to the table for mounting height on all mounting types.  
² Refer to the table for mounting height on all mounting types.  
³ Refer to the table for mounting height on all mounting types.  
¹² Refer to the table for mounting height on all mounting types.



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ENGINEER INFORMATION:

SHEET REVISIONS

#	DATE	TYPE
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

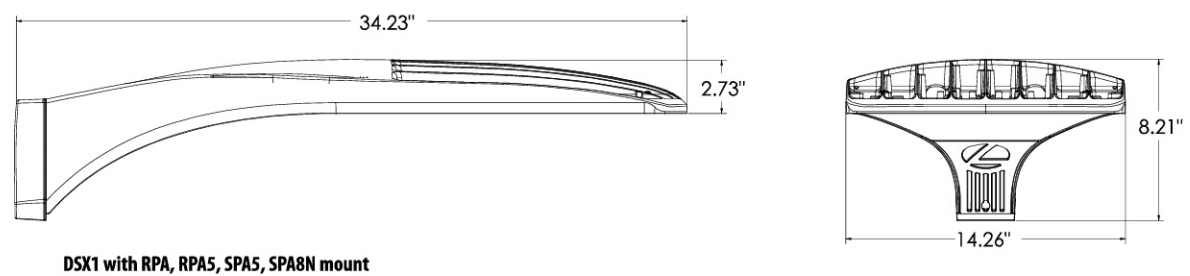
**EXTERIOR LIGHT FIXTURE CUT SHEETS**

DATE: 10/1/2024

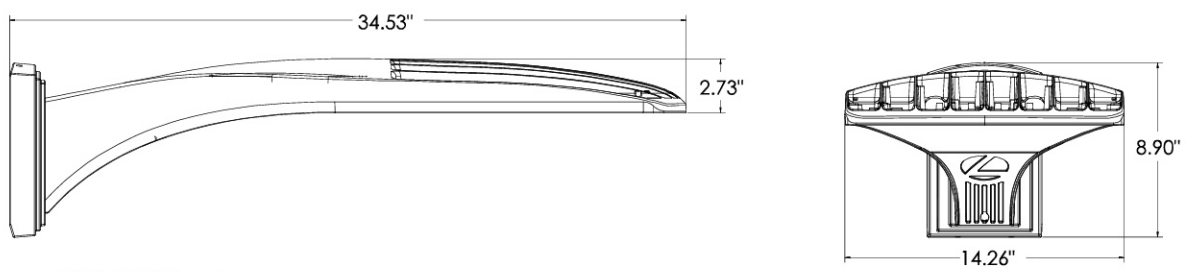
JOB NO. 24164

**PH1.2**  
SHEET NO.

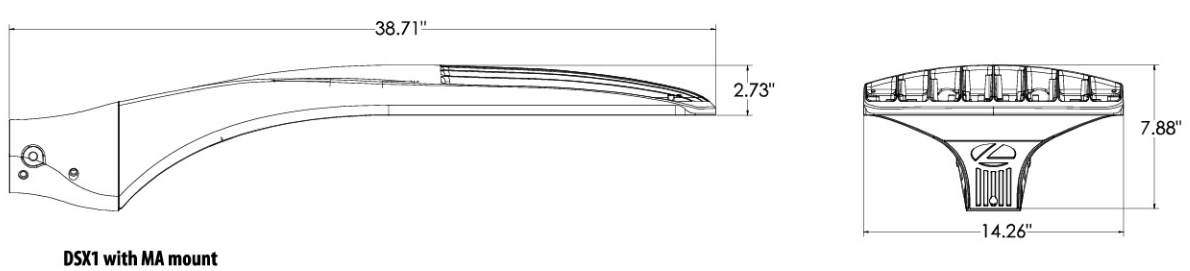
**Dimensions**



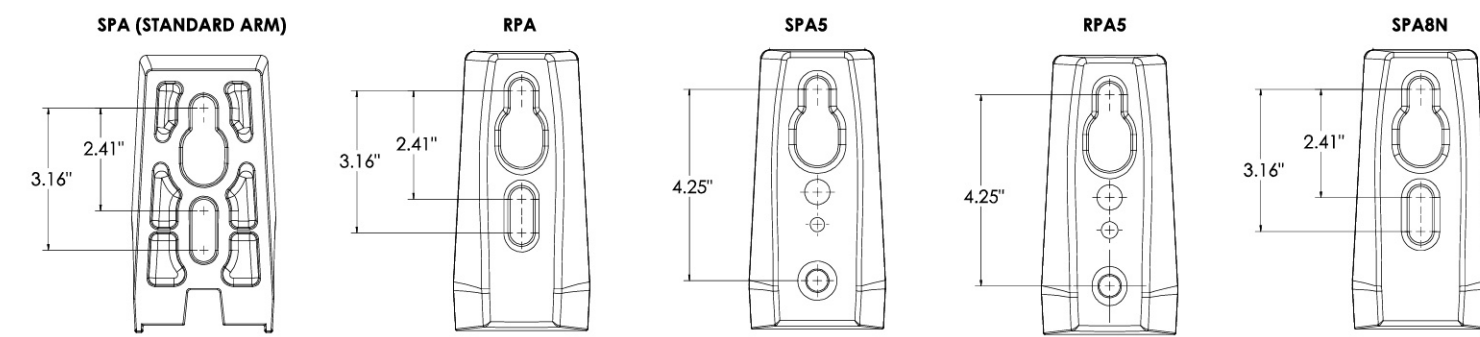
**DSX1 with RPA, SPAS, SPAS, SPAN mount**  
Weight: 36 lbs



**DSX1 with WBA mount**  
Weight: 38 lbs

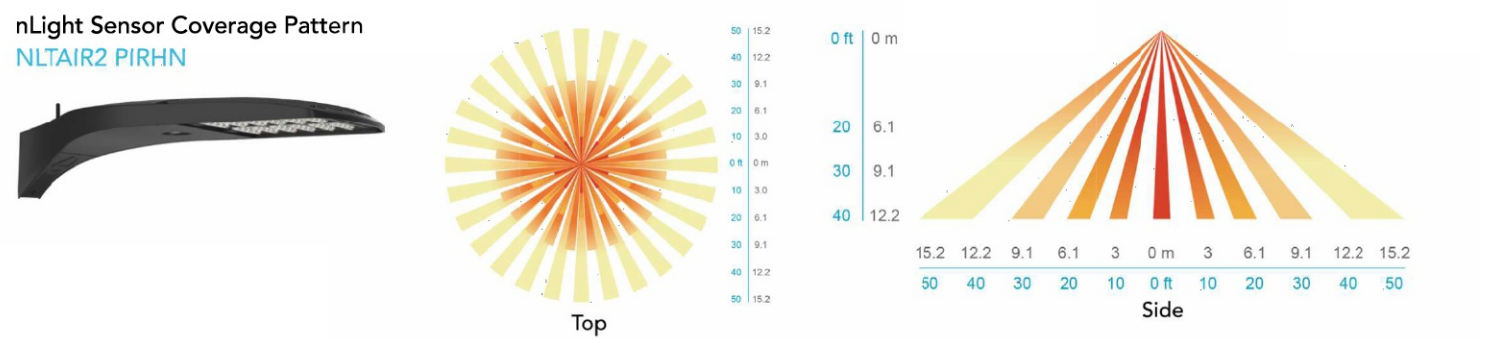


**DSX1 with MA mount**  
Weight: 39 lbs



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**nLight Control - Sensor Coverage and Settings**



**FEATURES & SPECIFICATIONS**

**INTENDED USE:** The sleek design of the D-Series Size 1 reflects the embedded high performance LED technology. It is ideal for many commercial and municipal applications, such as parking lots, plazas, campuses, and streetscapes.

**CONSTRUCTION:** Single-piece die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. Modular design allows for ease of maintenance and future light engine upgrades. The LED drivers are mounted in direct contact with the casting to promote low operating temperature and long life. Housing driver compartment is completely sealed against moisture and environmental contaminants (IP66). Vibration rated per ANSI C136.31 for 3G for SPA and MA, 1.5G for mountings RPA, SPAS, SPAS and SPAN. Low ESR (0.69 Hz) for optimized pole wind loading.

**FINISH:** Exterior parts are protected by a zinc-injected Super Durable TGIC, thermoset powder coat finish that provides superior resistance to corrosion and weathering. A highly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Available in both textured and non-textured finishes.

**Coastal Construction (CCE):** Optional corrosion resistant construction is engineered with added corrosion protection in materials and/or pre-treatment of base material under super durable paint. Provides additional corrosion protection for applications near coastal areas. Finish is salt spray tested to over 5,000 hours per ASTM B117 with scribe rating of 10. Additional lead-times may apply.

**OPTICS:** Precision-molded proprietary silicone lenses are engineered for superior area lighting distribution, uniformity, and pole spacing. Light engines are available in standard 3000 K, 4000 K and 5000 K (D/C) configurations. R/CRI configurations are also available. The D-Series Size 1 has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

**ELECTRICAL:** Light engine configurations consist of high-efficiency LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (6- to 100,000 hours at 25°C). Class I electronic drivers are designed to have a power factor >0.96, THD <20%, and an expected life of 100,000 hours with <1% failure rate. Easily serviceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41-2).

**STANDARD CONTROLS:** The DSX1 LED area luminaire has a number of control options. DSX Size 1, comes standard with 0-10V dimming drivers. Dusk to dawn controls can be utilized via optional NEMA twist-lock photocell receptacles. Integrated motion sensor with on-board photocell features field-adjustable programming and are suitable for mounting heights up to 40 feet. Control option BL features a bi-level device that allows a second control circuit to switch all light engines to either 30% or 50% light output.

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Catalog Number	Fixture Type SP1 & SP2 Pole
Notes	
Type	

**FEATURES & SPECIFICATIONS**

**INTENDED USE:** — These specifications are for USA standards only. Square Straight Steel is a general purpose light pole for up to 39-foot mounting heights. This pole provides a robust yet cost-effective option for mounting area lights and floodlights.

**CONSTRUCTION:** — Pole shaft: The pole shaft is of uniform dimension and wall thickness and is made of a weldable, grade, hot-rolled, commercial-quality steel tubing with a minimum yield of 55 KSI (11 gauge, 0.120") or 50 KSI (7-gauge, 0.179"). Shaft size piece with full length longitudinal high-frequency electric resistance weld. Uniformly square in cross-section with flat sides, small corner radii and excellent torsional qualities. Available shaft widths are 4", 5" and 6". Pole Top: Options include tenon top, drilled for side mount fixture, tenon with drilling (includes extra hardware) and open top. Side drilled and open top poles include a removable top cap.

**Handhole:** A reinforced handhole with grounding provision is provided at 18" from the base on side A. Positioning the handhole lower may not be possible and requires engineering review, consult Tech Support-Outdoor for further information. Every handhole includes a cover and cover attachment hardware. The handhole has a nominal dimension of 2.5" x 5".

**Base Cover:** A durable ABS plastic two-piece full base cover, finished to match the pole, is provided with each pole assembly. Additional base cover options are available upon request.

**Anchor Base/Bolts:** Anchor base is fabricated from steel that meets ASTM A36 standards and can be altered to match existing foundations; consult factory for modifications. Anchor bolts are manufactured to ASTM F1554 Standard grade 55, 55 KSI minimum yield strength and tensile strength of 75-95 KSI. Top threaded portion (minimum 12") is hot-dipped galvanized per ASTM A 153.

**HARDWARE:** — All structural fasteners are high-strength galvanized carbon steel. All non-structural fasteners are galvanized or zinc-plated carbon steel or stainless steel.

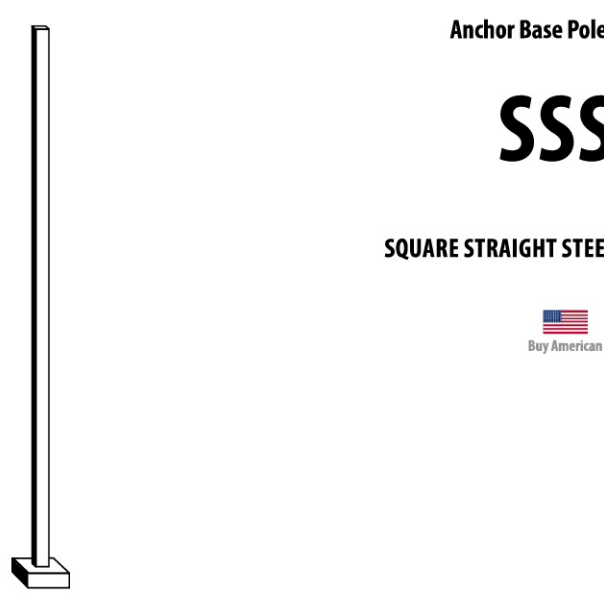
**FINISH:** — Extra durable painted finish is coated with TGC (Triglycidyl isocyanurate) Polyester powder that meets SA and SB classifications of ASTM D3359. Powder-coat finishes include Dark Bronze, White, Black, and Natural Aluminum colors. Architectural Colors and Special finishes are available by quote and include, but are not limited to: Paint over Hot-dipped Galvanized, RAL Colors, Custom Colors and Extended Warranty Finishes.

**BUY AMERICAN:** — Product with the BAA option is assembled in the USA and meets the Buy American government procurement requirements under FAR, DFARS and DOT. Please refer to [www.acuitybrands.com/buy-american](http://www.acuitybrands.com/buy-american) for additional information.

**INSTALLATION:** — Do not erect poles without having fixtures installed. Factory-supplied templates must be used when setting anchor bolts. Lithonia Lighting will not accept claim for incorrect anchorage placement due to failure to use Lithonia Lighting factory templates. If poles are stored outside, all protective wrapping must be removed immediately upon delivery to prevent finish damage. Lithonia Lighting is not responsible for the foundation design.

**WARRANTY:** — 1 year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: [www.acuitybrands.com/support/warranty/terms-and-conditions](http://www.acuitybrands.com/support/warranty/terms-and-conditions)

**NOTE:** Actual performance may differ as a result of end-user environment and application. Specifications subject to change without notice.



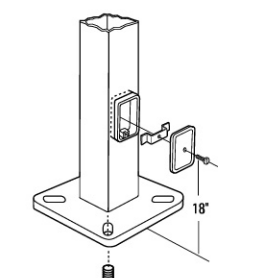
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**SSS Square Straight Steel Poles**

**TECHNICAL INFORMATION — EPA (ft²) with 1.3 gust**

Catalog Number	Nominal Shaft Length (ft)²	EPA (ft²) with 1.3 gust	Gauge	80 MPH		90 MPH		100 MPH		Bolt circle (in.)	Bolt size (in. x in. x in.)	Approximate ship weight (lbs.)	
				Max. weight	Max. weight	Max. weight	Max. weight						
SSS 104C	10	4.0x10.0	0.120"	11	30.6	765	23.8	595	18.9	473	8-9	34x18x3	75
SSS 124C	12	4.0x12.0	0.120"	11	24.4	610	18.8	470	16.8	370	8-9	34x18x3	90
SSS 144C	14	4.0x14.0	0.120"	11	19.9	498	15.1	378	11.7	293	8-9	34x18x3	100
SSS 164C	16	4.0x16.0	0.120"	11	15.9	398	11.8	295	8.9	223	8-9	34x18x3	115
SSS 184C	18	4.0x18.0	0.120"	11	12.6	315	9.2	230	6.7	168	8-9	34x18x3	125
SSS 204C	20	4.0x20.0	0.120"	11	9.6	240	6.7	167	4.5	150	8-9	34x18x3	140
SSS 204G	20	4.0x20.0	0.179"	7	14	350	11	275	8	200	8-9	34x30x3	198
SSS 204G	20	5.0x20.0	0.120"	11	17.7	443	12.7	343	9.4	235	10-12	1x36x4	185
SSS 204G	20	5.0x20.0	0.179"	7	28.1	703	21.4	535	16.2	405	10-12	1x36x4	265
SSS 254C	25	4.0x25.0	0.120"	11	4.8	150	2.6	100	1	50	8-9	34x18x3	170
SSS 254G	25	4.0x25.0	0.179"	7	10.8	270	7.7	188	5.4	135	8-9	34x30x3	245
SSS 254G	25	5.0x25.0	0.120"	11	9.8	245	6.3	157	3.7	150	10-12	1x36x4	225
SSS 254G	25	5.0x25.0	0.179"	7	18.5	463	13.3	333	9.5	238	10-12	1x36x4	360
SSS 304G	30	4.0x30.0	0.179"	7	6.7	168	4.4	110	2.6	65	8-9	34x30x3	295
SSS 304G	30	5.0x30.0	0.120"	11	4.7	150	2	50	—	—	10-12	1x36x4	265
SSS 304G	30	5.0x30.0	0.179"	7	10.7	267	6.7	167	3.9	100	10-12	1x36x4	380
SSS 304G	30	6.0x30.0	0.179"	7	19	475	13.2	330	9	225	11-13	1x36x4	520
SSS 354G	35	5.0x35.0	0.179"	7	5.9	150	2.5	100	—	—	10-12	1x36x4	440
SSS 354G	35	6.0x35.0	0.179"	7	12.4	310	7.6	190	4.2	165	11-13	1x36x4	540
SSS 394G	39	6.0x39.0	0.179"	7	7.2	180	3	75	—	—	11-13	1x36x4	605

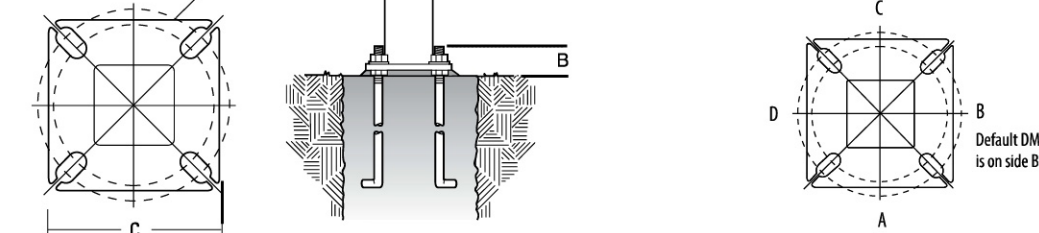
**BASE DETAIL**



**POLE DATA**

Shaft base size	Bolt circle A	Bolt projection B	Base square C	Base plate thickness	Template description	Anchor bolt description	Anchor bolt and template description
4" C	8" - 9"	3.25" - 3.75"	8" - 8.25"	0.75"	ABTEMPLATE.P250004	AB18-0	ABSS-4C
4" C	8" - 9"	3.38" - 3.75"	8" - 8.25"	0.875"	ABTEMPLATE.P250004	AB30-0	ABSS-4G
5" C	10" - 12"	3.5" - 4"	11"	1"	ABTEMPLATE.P250010	AB36-0	ABSS-5
6" C	11" - 13"	4" - 4.50"	12.5"	1"	ABTEMPLATE.P250011	AB36-0	N/A

**HANDHOLE ORIENTATION**



**IMPORTANT INSTALLATION NOTES:**

- Do not erect poles without having fixtures installed.
- Factory-supplied templates must be used when setting anchor bolts. Lithonia Lighting will not accept claim for incorrect anchorage placement due to failure to use Lithonia Lighting factory templates.
- If poles are stored outside, all protective wrapping must be removed immediately upon delivery to prevent finish damage.
- Lithonia Lighting is not responsible for the foundation design.
- Bolt circles have 4 +.12" tolerance.

- NOTE:**
- Handhole covers (HRC), full base covers (FBC) and top caps (TC) shipped separately. No need to call out in nomenclature. For additional parts please order as replacement.
  - Wall thickness will be sighted with a "C" (11 gauge) or a "D" (7-gauge) in nomenclature. C: 0.120" (1" - 1.19"); D: 0.106" (1" - 1.14").
  - PT open top poles include top cap. When ordering tenon mounting and drill mounting be the same pole, follow this example: DM28.730. The combination includes a required extra handhole.
  - Refer to the fixture spec sheet for the correct drilling template pattern and orientation compatibility.
  - All RPA drilling require a minimum top O.D. of 4".
  - Insert "T" or "TT" to designate fixture size e.g. DM165T2.
  - On 4" and 5" poles, VD cannot be installed (Provisions EPH, FPL, CPL) are located higher than 2/3 of the pole's total height. Example: Pole height is 25'. A provision cannot be placed above 16'.
  - Specify location and orientation when ordering option. For "x": Specify the height above the base of pole in feet and inches, separate feet and inches with a "." Example: 9' - 1.5" (4.208m - 203).
  - For "y": Specify orientation from handhole (A, B, C). Refer to the Handhole Orientation diagram below. Example: 1/2" coupling at 8' orientation C = CP 12.5-8C
  - Horizontal arms (A, B, C) (10" inner standard, with radius curve providing 12" rise and 2-3/8" O.D.) (Refer to two horizontal arm at the same height, specify with Hkky. Example: Hk200).
  - FD does not come with (GC) welder or handhole cover. These must be supplied by contractor or electrician.
  - Combination of tenon top and drill mount includes extra hardware. (EN) includes cover.
  - Provides enhanced commission assistance.
  - When mill certifications are required.
  - Finish must be specified. Additional colors available, see Architectural Colors brochure linked href: (Form No. 794.3).

**Accessories:** Order as separate catalog number.

PL D120	Plugs for ESX drillings
PL D76	Plugs for DMxAS drillings



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