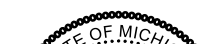


BUILDING SITE CODE: XXX  
FORD PROJECT NUMBER: XXXX-XX

	
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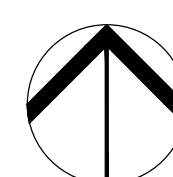
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PRINT DATE: 5/16/2024 4:20:15 PM SAVE DATE: 5/16/2024 2:14:59 PM

NORTH



FORD MOTOR COMPANY PARCEL  
LEGAL DESCRIPTION OF LAND  
LOCATED IN SECTIONS 20, 28, & 29, T2S, R6W,  
MARSHALL TOWNSHIP, CALHOUN COUNTY, MICHIGAN

BEGINNING AT THE W 1/4 CORNER OF SECTION 29, T2S, R6W, MARSHALL TOWNSHIP, CALHOUN COUNTY, MICHIGAN.

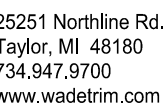
THENCE S 89°58'17" E 33.00 FEET ALONG THE E-W 1/4 LINE OF SAID SECTION 29 TO THE EAST RIGHT-OF-WAY LINE OF 13 MILE ROAD;  
THENCE N 00°22'04" E 874.12 FEET ALONG SAID EAST RIGHT-OF-WAY LINE;  
THENCE N 90°00'00" E 7930.48 FEET;  
THENCE S 00°20'34" E 973.87 FEET ALONG THE N-S 1/4 LINE OF SECTION 28, T2S, R6W, MARSHALL TOWNSHIP, CALHOUN COUNTY, MICHIGAN TO THE CENTER OF SAID SECTION 28;  
THENCE S 00°08'50" E 1947.49 FEET ALONG THE N-S 1/4 LINE OF SAID SECTION 28;  
THENCE N 71°18'28" W 397.60 FEET;  
THENCE N 90°00'00" W 6312.27 FEET;  
THENCE N 78°09'31" W 1337.71 FEET;  
THENCE N 00°15'11" E 1589.11 FEET ALONG THE WEST LINE OF SAID SECTION 29 TO THE POINT OF BEGINNING, BEING PART SECTIONS 28 AND 29, T2S, R6W, MARSHALL TOWNSHIP, CALHOUN COUNTY, MICHIGAN AND CONTAINING 506.80 ACRES OF LAND, MORE OR LESS. BEING SUBJECT TO EASEMENTS AND RESTRICTIONS, OF RECORD, IF ANY.



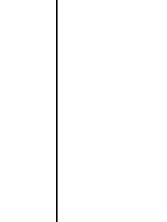
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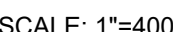


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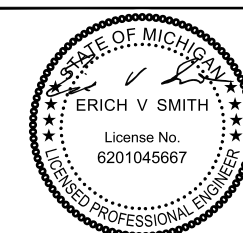




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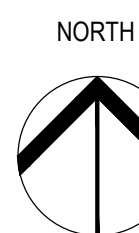
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DRAWN BY:	M KAMINSKI
DESIGNED BY:	S DODSON
CHECKED BY:	B NARTKER
APPROVED BY:	E SMITH
<hr/>	
SHEET TITLE	

## SITE PREP PLAN

## C1.1



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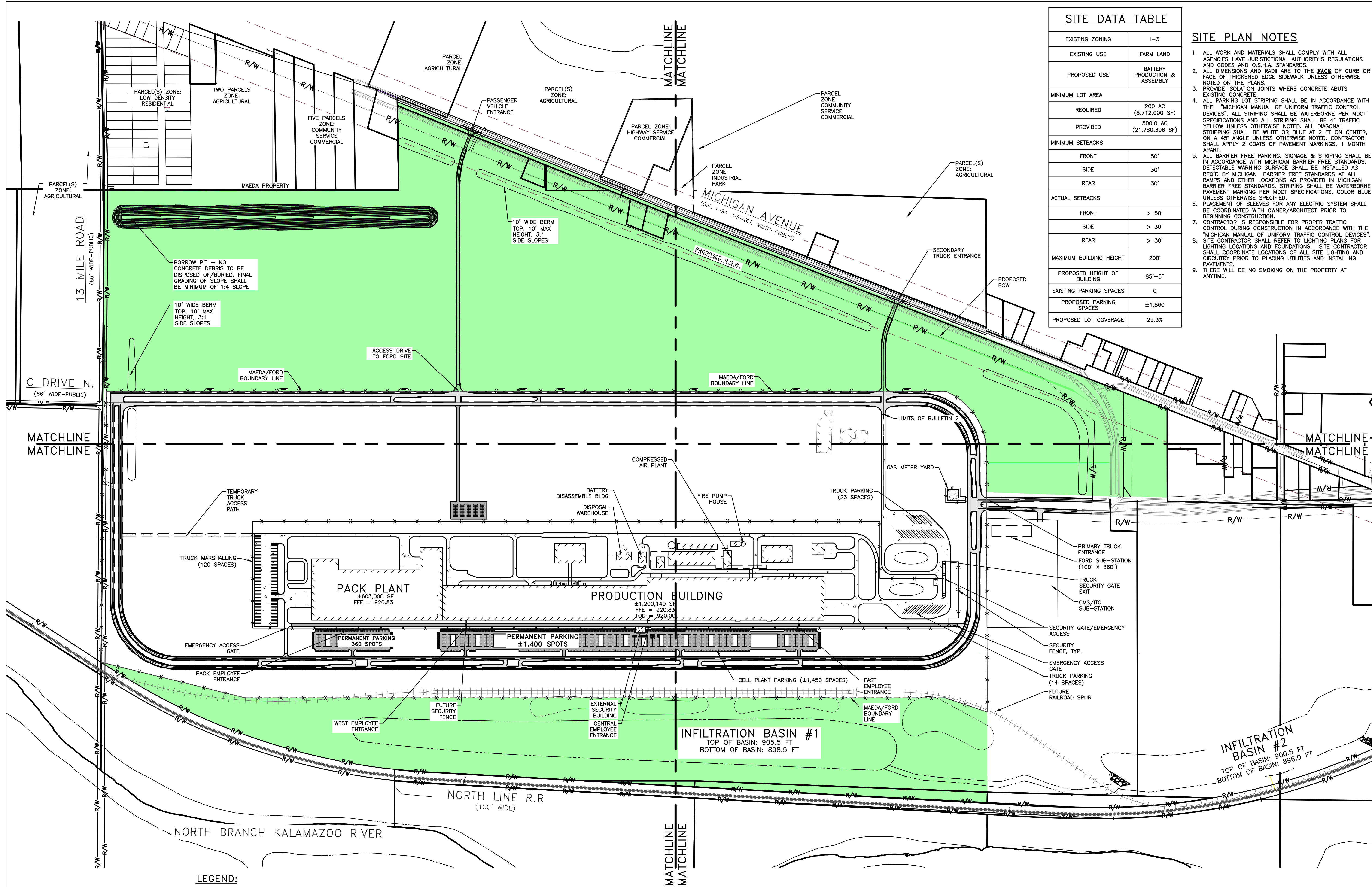


SCALE: 1"=400'

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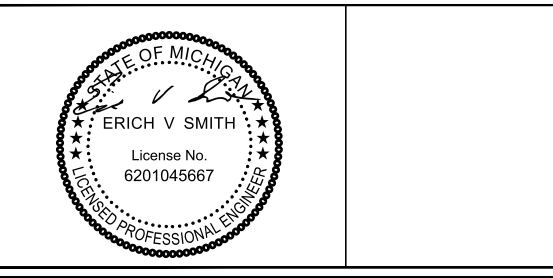






SITE DATA TABLE	
EXISTING ZONING	I-3
EXISTING USE	FARM LAND
PROPOSED USE	BATTERY PRODUCTION & ASSEMBLY
MINIMUM LOT AREA	
REQUIRED	200 AC (8,712,000 SF)
PROVIDED	500.0 AC (21,780,306 SF)
MINIMUM SETBACKS	
FRONT	50'
SIDE	30'
REAR	30'
ACTUAL SETBACKS	
FRONT	> 50'
SIDE	> 30'
REAR	> 30'
MAXIMUM BUILDING HEIGHT	200'
PROPOSED HEIGHT OF BUILDING	85'-5"
EXISTING PARKING SPACES	0
PROPOSED PARKING SPACES	±1,860
PROPOSED LOT COVERAGE	25.3%

- ### SITE PLAN NOTES
- ALL WORK AND MATERIALS SHALL COMPLY WITH ALL AGENCIES HAVE JURISDICTIONAL AUTHORITY'S REGULATIONS AND CODES AND O.S.H.A. STANDARDS.
  - ALL DIMENSIONS AND RAISE TO THE FACE OF CURB OR FACE OF THICKENED EDGE SIDEWALK UNLESS OTHERWISE NOTED ON THE PLANS.
  - PROVIDE ISOLATION JOINTS WHERE CONCRETE ABUTS EXISTING CONCRETE.
  - ALL PARKING LOT STRIPING SHALL BE IN ACCORDANCE WITH THE "MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES". ALL STRIPING SHALL BE WATERBORNE PER MDOT SPECIFICATIONS AND ALL STRIPING SHALL BE 4" TRAFFIC YELLOW UNLESS OTHERWISE NOTED. ALL DIAGONAL STRIPING SHALL BE WHITE OR BLUE AT 2 FT ON CENTER, ON A 45° ANGLE UNLESS OTHERWISE NOTED. CONTRACTOR SHALL APPLY 2 COATS OF PAVEMENT MARKINGS, 1 MONTH APART.
  - ALL BARRIER FREE PARKING, SIGNAGE & STRIPING SHALL BE IN ACCORDANCE WITH MICHIGAN BARRIER FREE STANDARDS. DETECTABLE WARNING SURFACE SHALL BE INSTALLED AS REQ'D BY MICHIGAN BARRIER FREE STANDARDS AT ALL RAMPS AND OTHER LOCATIONS AS PROVIDED IN MICHIGAN BARRIER FREE STANDARDS. STRIPING SHALL BE WATERBORNE PAVEMENT MARKING PER MDOT SPECIFICATIONS, COLOR BLUE UNLESS OTHERWISE SPECIFIED.
  - PLACEMENT OF SLEEVES FOR ANY ELECTRIC SYSTEM SHALL BE COORDINATED WITH OWNER/ARCHITECT PRIOR TO BEGINNING CONSTRUCTION.
  - CONTRACTOR IS RESPONSIBLE FOR PROPER TRAFFIC CONTROL DURING CONSTRUCTION IN ACCORDANCE WITH THE "MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES".
  - SITE CONTRACTOR SHALL REFER TO LIGHTING PLANS FOR LIGHTING LOCATIONS AND FOUNDATIONS. SITE CONTRACTOR SHALL COORDINATE LOCATIONS OF ALL SITE LIGHTING AND CIRCUITRY PRIOR TO PLACING UTILITIES AND INSTALLING PAVEMENTS.
  - THERE WILL BE NO SMOKING ON THE PROPERTY AT ANYTIME.



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06/29/2023	• SITE PLAN RESUBMITTAL
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04/14/2023	• SITE PLAN PRE APPLICATION
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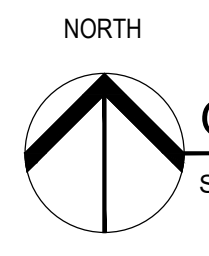
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DRAWN BY:	M KAMINSKI
DESIGNED BY:	S DODSON
CHECKED BY:	B NARTKER
APPROVED BY:	E SMITH

SHEET TITLE  
**OVERALL SITE PLAN**

FORD DWG NO. \_\_\_\_\_ REV. # \_\_\_\_\_

SHEET NUMBER  
**C2.0**

LEGEND:	
MAEDA PROPERTY BUFFER	
PROPOSED PAVED PARKING LOTS	
PROPOSED PAVED ROADS	
BUILDING	
TEMPORARY STONE AREAS	
PROPOSED CONCRETE SURFACE	
INFILTRATION BASIN	



OVERALL SITE PLAN

SCALE: 1"=400'

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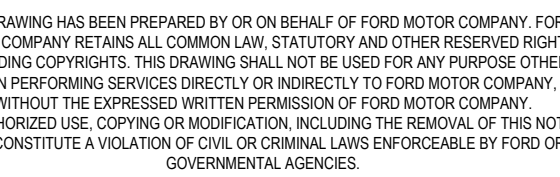
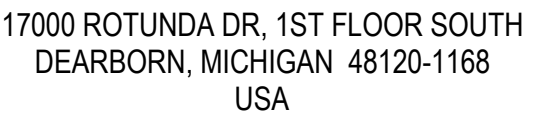
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9/2023	• SITE PLAN RESUBMITTAL
5/2023	• SITE PLAN APPROVAL
4/2023	• SITE PLAN PRE APPLICATION

TITLE  
 WHITE PLAN (2 OF 4)  
 DWG NO. \_\_\_\_\_ REV. # \_\_\_\_\_  
 PART NUMBER  
 C2.2



SCALE: 1"=200'

**PRELIMINARY**  
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[illegible]

# SITE PLAN (3 OF 4)

---

FORD DWG NO. \_\_\_\_\_ REV. # \_\_\_\_\_

SHEET NUMBER

## C2.3









26' WIDE FIRE LANE  
BUILDING ACCESS  
LANE

7' WIDE SIDEWALK,  
TYP.

SECURITY FENCING

HMA SURFACE

HMA SURFACE

BIORETENTION BASIN, TYP. SEE  
DETAIL ON SHEET L-501

STRIPED ISLAND, TYP.

Dimensions and layout details are provided throughout the plan, including stall widths (e.g., 9.0' TYP., 18.0', 36.0', 42.0'), aisle widths (e.g., 24.0'), and overall lot dimensions (e.g., 30.0', 26.0', 15.0', 7.0', 18.0', 24.0', 10.0', 99.0', 24.0', 18.0').



**WADE  
TRIM**

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Taylor, MI 48180  
734.947.9700  
[www.wadetrim.com](http://www.wadetrim.com)

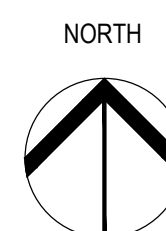
STATE OF MICHIGAN  
ERICH V SMITH  
License No.  
6201045667  
LICENSED PROFESSIONAL ENGINEER

A series of horizontal lines for writing, each preceded by a small black dot.

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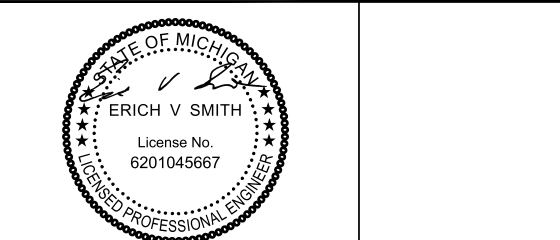
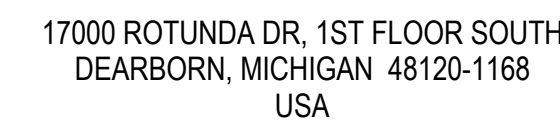


SCALE: 1"=20'

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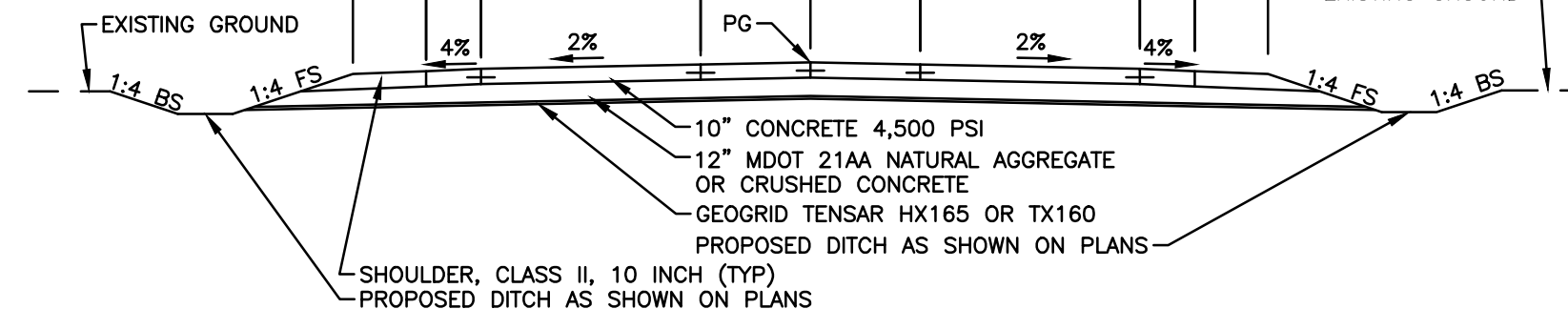
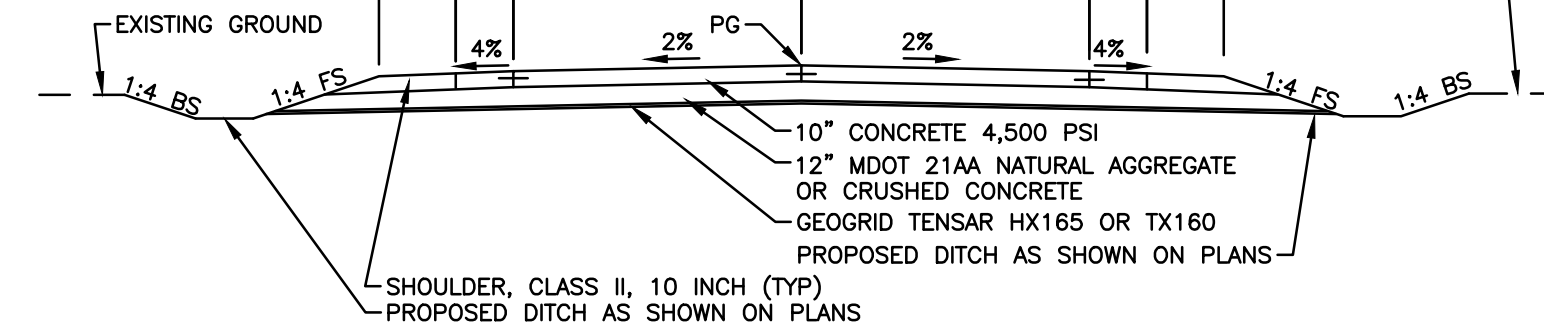
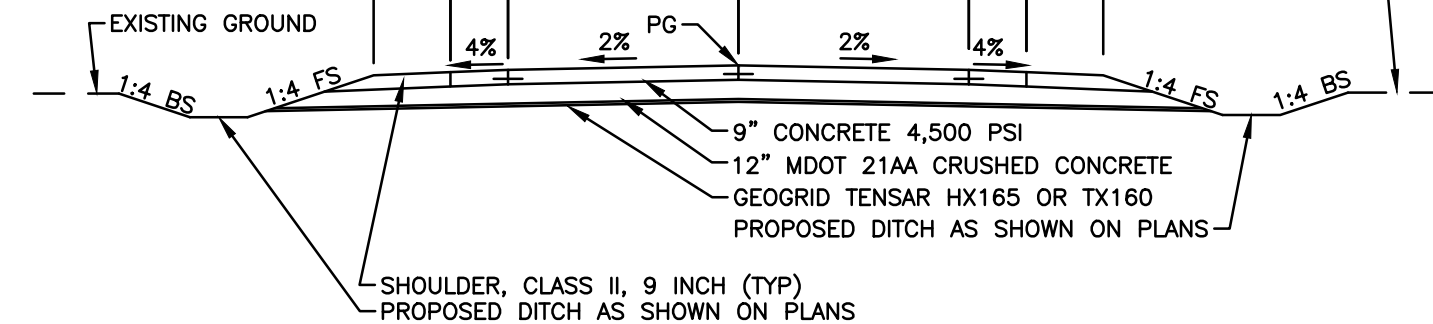
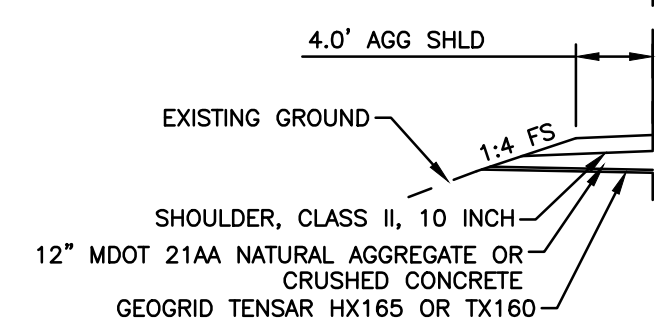
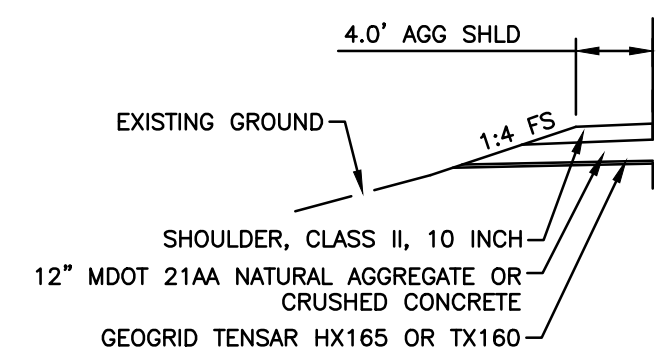
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06/29/2023	• SITE PLAN RESUBMITTAL
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SHEET NUMBER \_\_\_\_\_

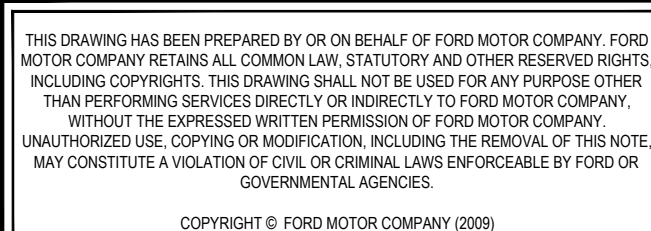
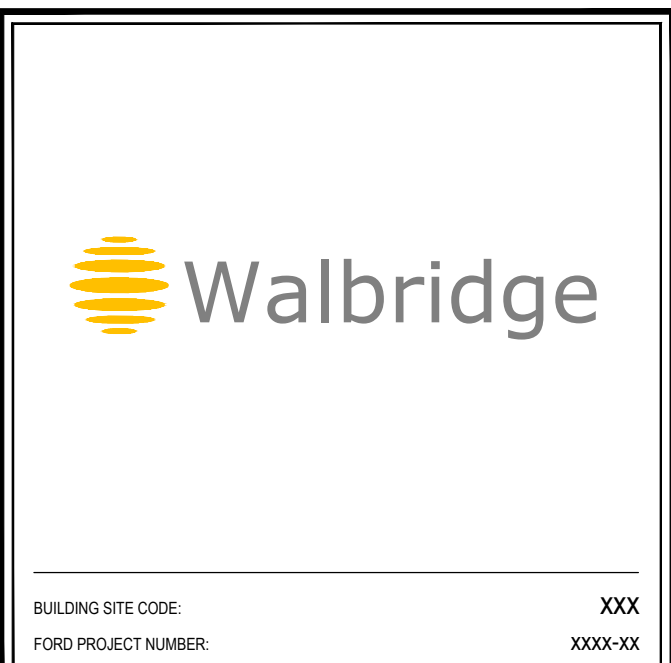
## C2.6



NOTE: SEE LANDSCAPING PLANS FOR SLOPE RESTORATION AND TURF ESTABLISHMENT.

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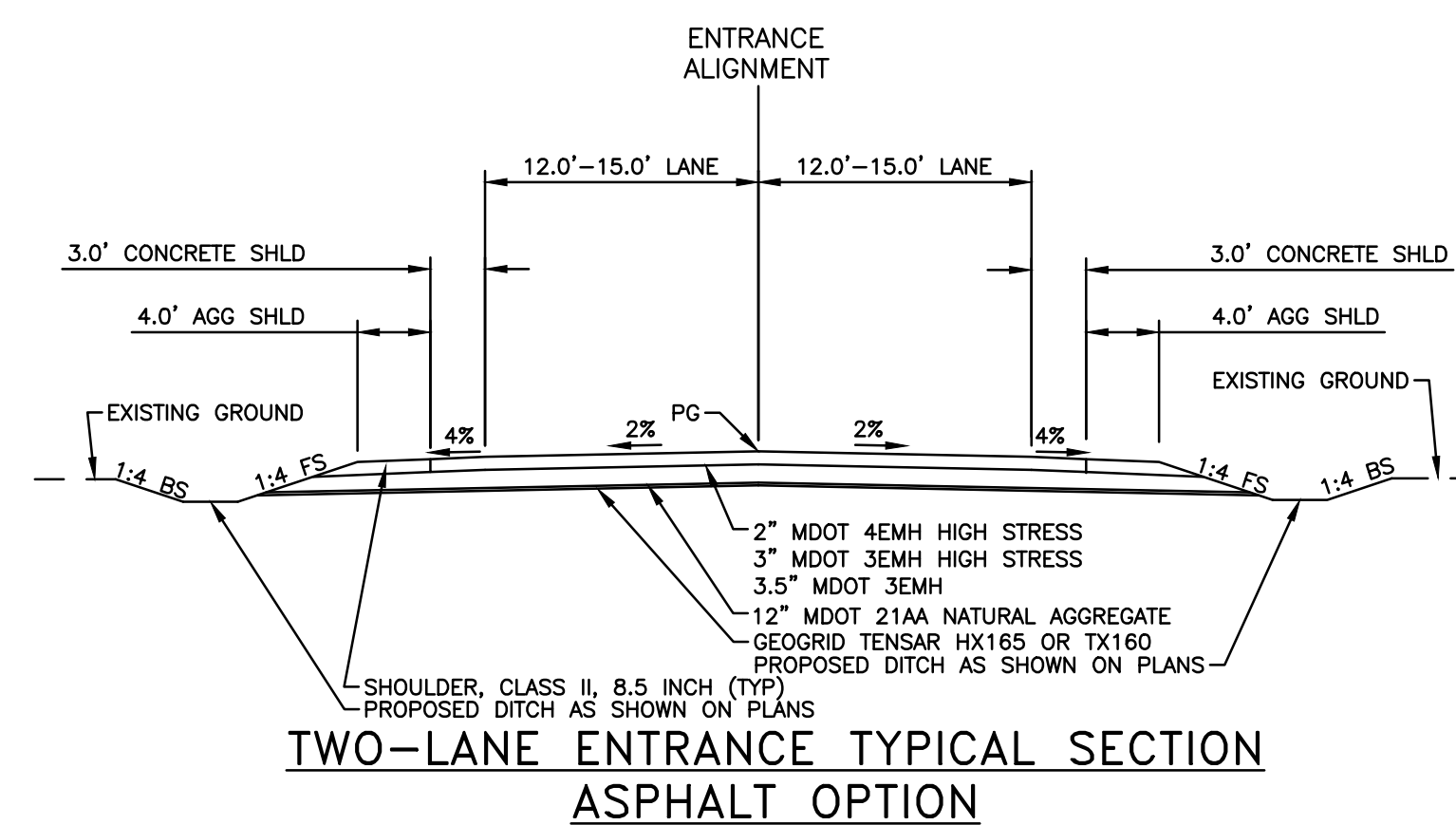
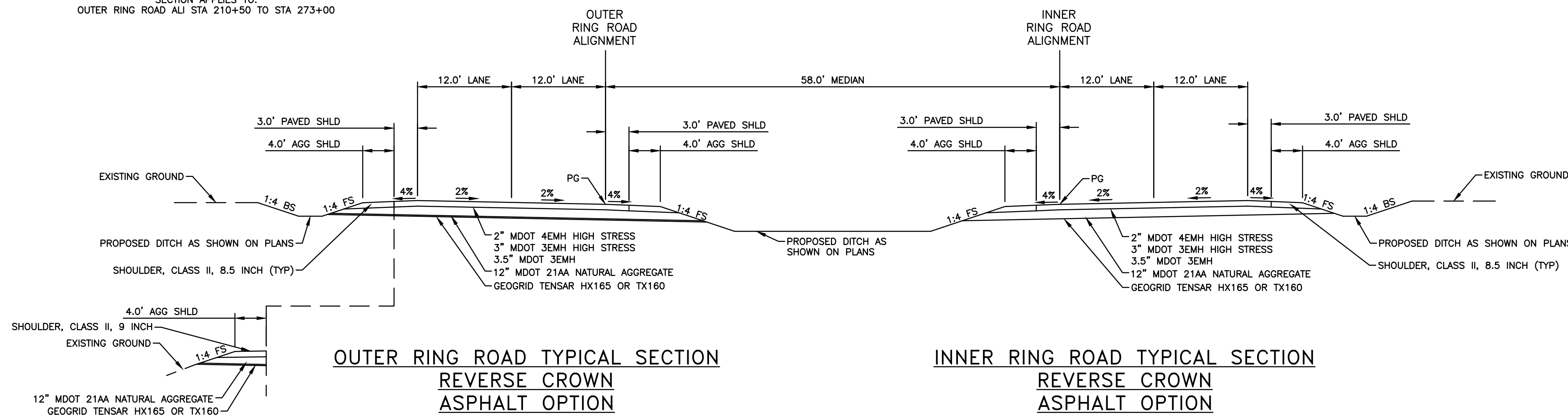
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ROAD TYPICALS (2 OF 2)

FORD DWG NO. REV. #

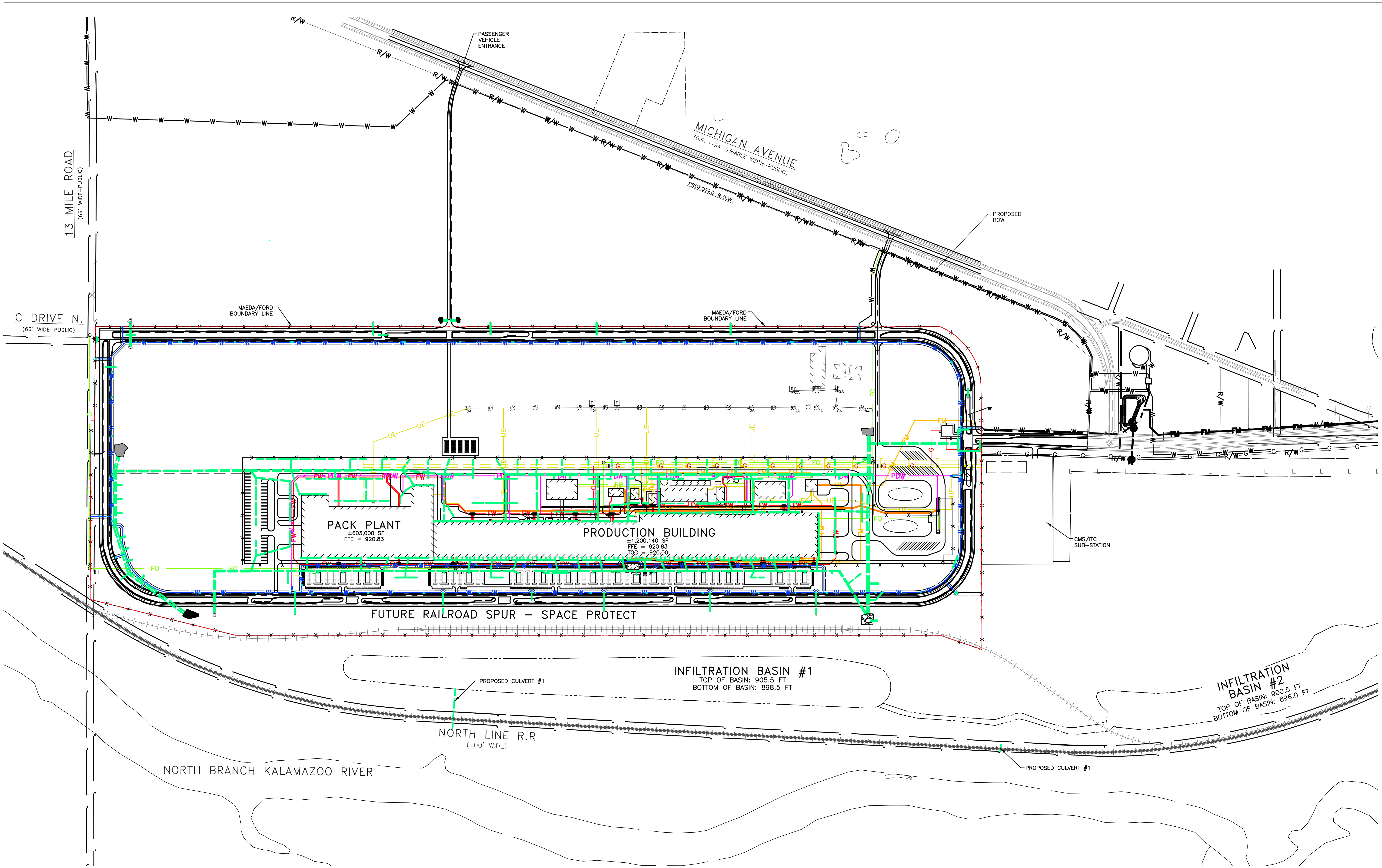
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**C2.7**



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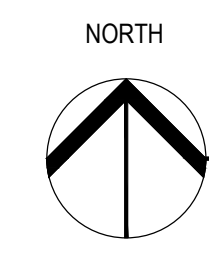




PROPOSED UTILITY LEGEND

SANITARY SEWER LINE	—	SANITARY FORCE MAIN	—FM—FM—
STORM SEWER LINE	---	DOMESTIC WATER HYDRANT	⦿
DOMESTIC WATER LINE	—W—W—	DOMESTIC WATER VALVE	⊕
FORD DOMESTIC WATER LINE	—PDW—	FORD DOMESTIC WATER VALVE	⊕
FIREWATER LINE	—FW—FW—	FORD DOMESTIC WATER HYDRANT	⦿
UNDERGROUND ELECTRIC	—UE—UE—	FIREWATER VALVE	⊕
NATURAL GAS	—G—G—		
OVERHEAD ELECTRIC	—E—E—	OVERHEAD ELEC. ALTERNATE	---
FIBER OPTIC	—FO—FO—		

NOTE:  
NON-COLORED UTILITIES SHOWN FOR  
OFFSITE PROPOSED IMPROVEMENTS



OVERALL UTILITY PLAN

SCALE: 1"=400'

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USA

BUILDING SITE CODE: XXXX  
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APPROVED BY:	E SMITH

SHEET TITLE

OVERALL UTILITY PLAN

FORD DWG NO.	REV #
SHEET NUMBER	C3.0



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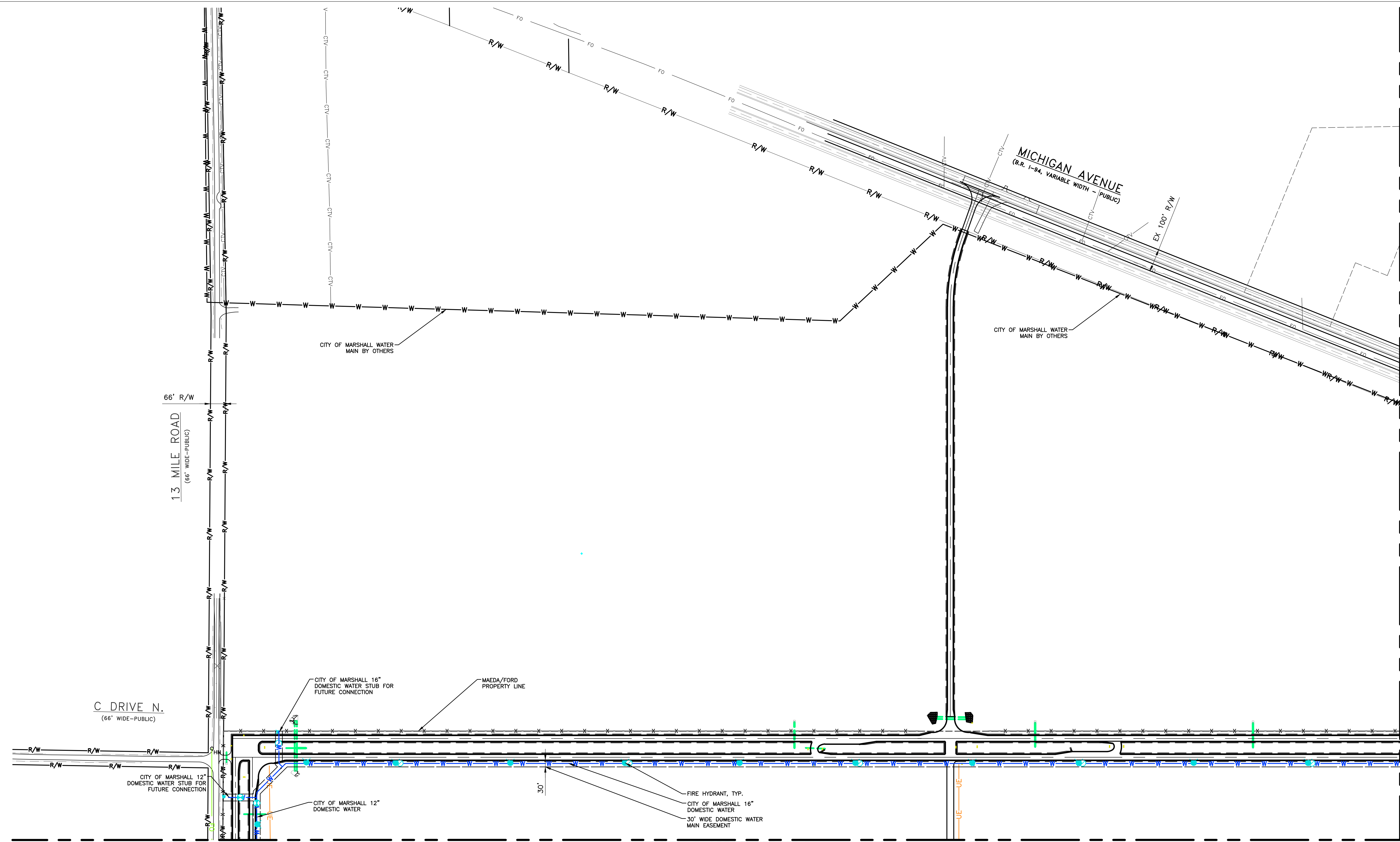
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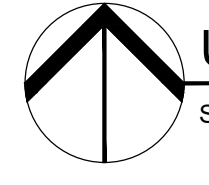







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UTILITY PLAN (1 OF 4)  
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1" = 200'


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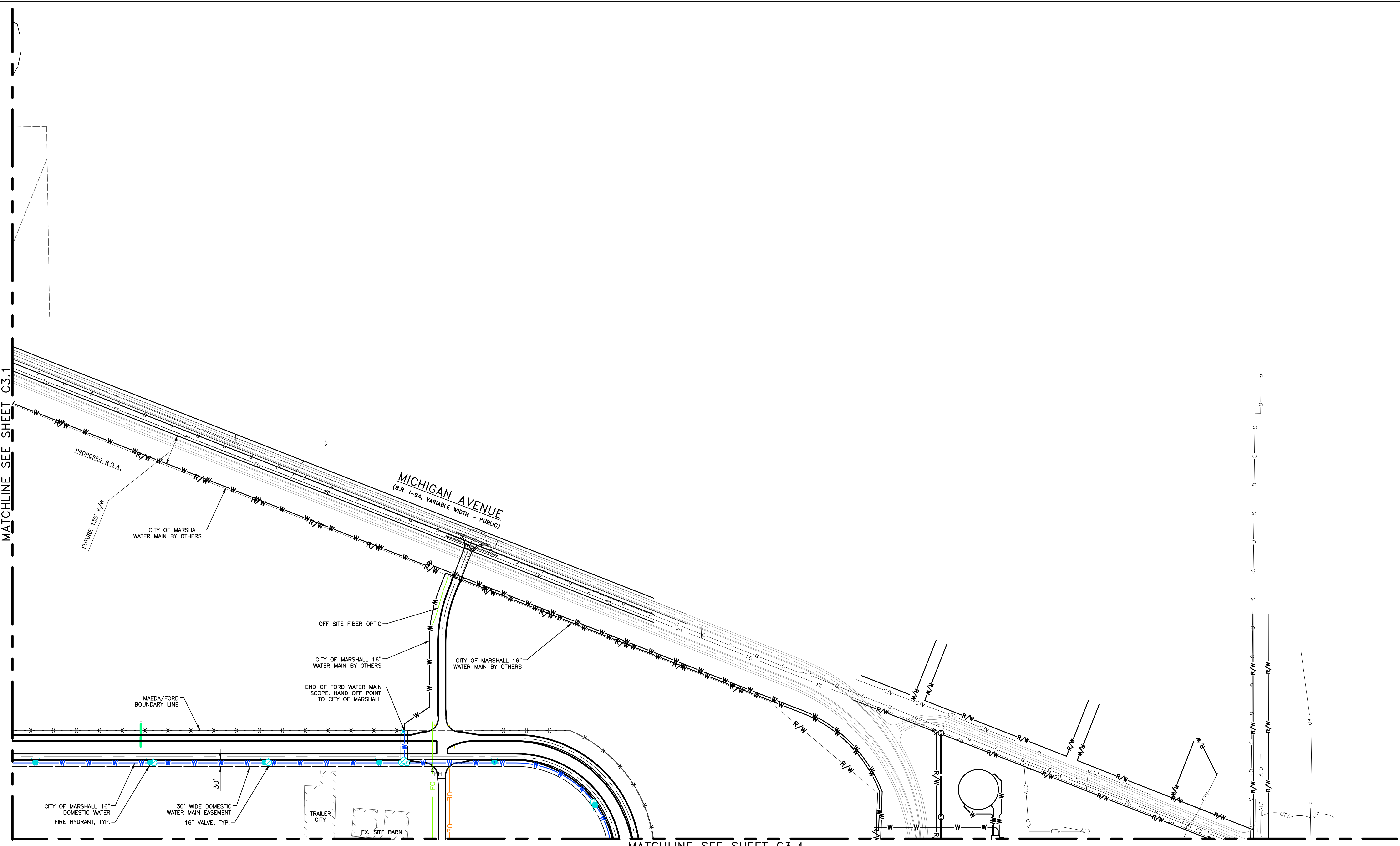
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06/29/2023	• SITE PLAN RESUBMITTAL
04/25/2023	• SITE PLAN APPROVAL
04/14/2023	• SITE PLAN PRE APPLICATION

DATE: ISSUED FOR:

IN CHARGE: J CIESIELSKI  
DRAWN BY: M KAMINSKI  
DESIGNED BY: S DODSON  
CHECKED BY: B NARTKER  
APPROVED BY: E SMITH

SHEET TITLE  
UTILITY PLAN (1 OF 4)  
FORD DWG NO.: REV. #  
SHEET NUMBER  
C3.1





MATCHLINE SEE SHEET C3.1

MATCHLINE SEE SHEET C3.4



NORTH  
UTILITY PLAN (2 OF 4)  
SCALE: 1"=200'

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APPROVED BY:	E SMITH

SHEET TITLE  
UTILITY PLAN (2 OF 4)

FORD DWG NO.      REV. #

SHEET NUMBER  
C3.2

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ISSUED FOR	

TITLE

TILITY PLAN (3 OF 4)

DWG NO. REV. #

T NUMBER

C3.3



NORTH



UTILITY PLAN (3 OF 4)

SCALE: 1"=200'

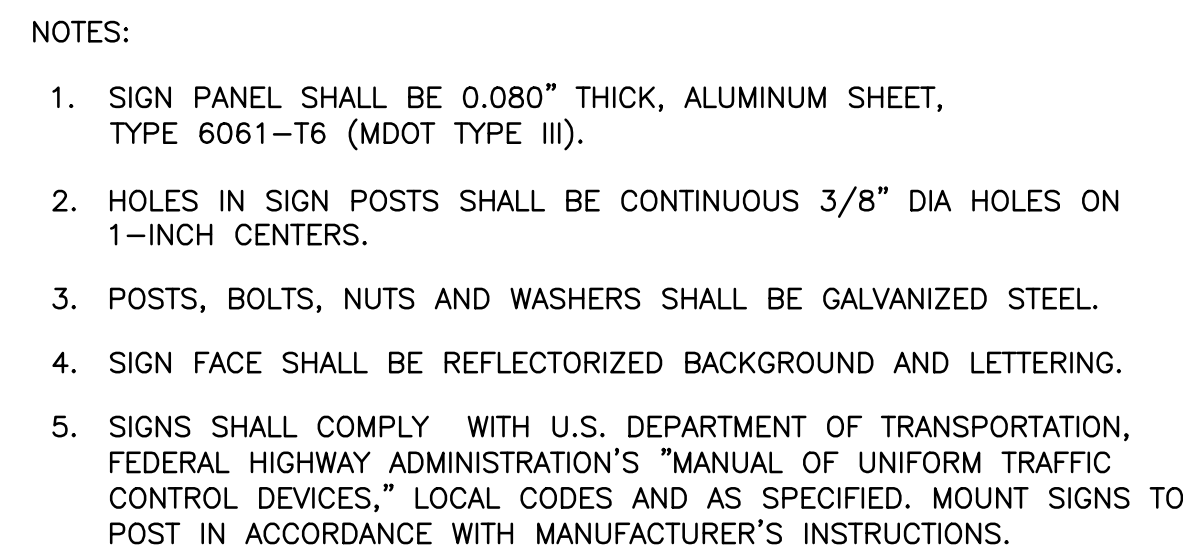
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6" DIA. SCH 40 GALV STEEL PIPE FILLED WITH 3000 PSI CONCRETE

COVER WITH SAFETY YELLOW, 1/8" THICK, HDPE, BOLLARD POST SLEEVE

SLOPE AT 1"/FT

FINISHED GRADE

3000 PSI CONCRETE

4'-0"

3'-6"

6"

18" MIN.



Diagram illustrating the cross-section of a concrete slab with reinforcement details. The slab is 8'-0" wide and 6" thick. The reinforcement includes 60 #4 rebar (ASTM A-615 Grade) and 4000 PSI concrete. Key dimensions and features include:

- Overall width: 8'-0"
- Overall thickness: 6"
- Reinforcement: 60 #4 REBAR (ASTM A-615 GRADE), 4000 PSI CONCRETE
- Top reinforcement: 3/4" DIA. HOLE (TYP. 2)
- Bottom reinforcement: WEEP HOLE (TYP. 2)
- Reinforcement spacing: 11", 26", 1 1/2", 22", 1 1/2", 26", 11"
- Reinforcement depth: 1 1/2"
- Reinforcement diameter: 3/4"
- Reinforcement type: 60 #4 REBAR (ASTM A-615 GRADE)
- Concrete type: 4000 PSI CONCRETE

Technical drawing of a trapezoidal concrete base. The drawing includes the following dimensions and specifications:

- Top width: 9"
- Inner top width: 6"
- Height: 4-1/2"
- Bottom width: 10"
- Material: 4000 PSI CONCRETE
- Reinforcement: ASTM A-615 GRADE 60 #4 REBAR (TYP. 2)
- Feature: LINE OF DRAINAGE SPACE
- Dimension  $t_o$  is indicated for the drainage space.

NOTES:

1. WHEEL STOPS SHALL BE UNPAINTED EXCEPT WHERE INDICATED ON PLANS.
2. ALL ADA WHEEL STOPS TO BE 6' IN LENGTH.
3. WHEEL STOPS SHALL BE INSTALLED 18" FROM CENTER OF STRIPING OR EDGE OF SIDEWALK.

Diagram illustrating the layout and dimensions for barrier-free parking spaces, including standard and barrier-free parking areas.

**Standard Parking Dimensions:**

- Overall width: 20' EXCEPT WHERE NOTED IN THE PLANS
- Lane width: D (LANE WIDTH) SEE SITE PLAN
- Dimensions from lane edge to parking space edge: 1/3 D, 1/3 D, 1/3 D
- Width of parking space: 1'-6"
- Width of painted arrow: 4" WIDE PAINTED STRIPE (WHITE)
- Distance from center of stripe to face of wheel stop: 18" FROM THE CENTER OF THE STRIPE TO THE FACE OF THE WHEEL STOP - REFER TO PLANS FOR REQUIRED LOCATIONS (TYP.)

**Barrier-Free Parking Dimensions:**

- Overall width: 20' EXCEPT WHERE NOTED IN THE PLANS
- Dimensions from lane edge to parking space edge: 1/3 D, 1/3 D, 1/3 D
- Width of parking space: 1'-6"
- Width of painted arrow: 4" WIDE PAINTED STRIPE (WHITE)
- Distance from center of stripe to face of wheel stop: 18" FROM THE CENTER OF THE STRIPE TO THE FACE OF THE WHEEL STOP - REFER TO PLANS FOR REQUIRED LOCATIONS (TYP.)

**Barrier-Free Parking Symbols:**

- Barrier Free Parking Symbol (SEE DETAIL THIS SHEET)
- Barrier Free Parking Sign (SEE DETAIL THIS SHEET)

NOTE:  
ALL BARRIER FREE STRIPING AND SIGNAGE SHALL BE 4" WIDE PAINTED COLOR SAFETY BLUE

The diagram illustrates a cross-section of a road embankment. At the top, a horizontal line represents the ground surface. Below this, a layer of 'TOP SOIL' is shown. A dashed line indicates the 'FFE, FUTURE CONDITION' (Finished Floor Elevation, Future Condition). The embankment is constructed from 'FILL MATERIAL', which is shown as a stippled area. The base of the embankment is 'UNDISTURBED EARTH', represented by a hatched pattern. A vertical dimension of '4' 6"' is indicated on the left side of the embankment. The diagram is labeled with 'TOP SOIL', 'FFE, FUTURE CONDITION', 'UNDISTURBED EARTH', and 'FILL MATERIAL'.

NOTE:

REFER TO SECTION 31 00 00 FOR COMPACTION AND TESTING REQUIREMENTS.

20' MAXIMUM PAVEMENT WIDTH

4" BITUMINOUS SURFACE (IN 2 LIFTS)

8" AGGREGATE BASE

VARIES, 8" MIN.

SAWCUT (TYP.)

CONSTRUCT BUTT JOINT (TYP.)

CLASS II SAND SUBBASE COMPACTED TO 98% MODIFIED PROCTOR (MIN.); DEPTH TO VARY TO MATCH EXISTING SITE CONDITIONS

12" (TYP.)

LIMITS OF TRENCH FOR UTILITY REMOVAL; BACKFILLED PER DETAIL SHEET C-501

NOTE:

ASPHALT PAVEMENT AS SHOWN WILL BE USED TO REPLACE CONCRETE AND ASPHALT PAVEMENTS WHERE PAVEMENT RESTORATION IN AREAS OF UTILITY REMOVAL OR NEW UTILITY PLACEMENT IS INDICATED ON PLANS.

5'-0"

5'-0"

NOTES:

1. SYMBOL SHALL DEPICT A DYNAMIC CHARACTER LEANING FORWARD WITH A SENSE OF MOVEMENT.
2. PROVIDE CONTRASTING BACKGROUND WITH EITHER A WHITE SYMBOL ON A BLUE BACKGROUND OR A BLUE SYMBOL ON A WHITE BACKGROUND.
3. SYMBOL SHALL BE SUBSTANTIALLY EQUIVALENT TO THE INTERNATIONAL SYMBOL OF ACCESS.
4. SYMBOL SHALL BE SIMPLE AND AVOID ANY SECONDARY MEANING.

BLUE PAINT  
DENOTING VAN  
ACCESSIBILITY  
WHERE  
APPLICABLE

**VAN**

Diagram illustrating the cross-section of a road surface showing existing and proposed layers. The existing structure includes an asphalt top surface, asphalt base, and aggregate base. The proposed structure includes a top course asphalt, a first course asphalt, and an existing aggregate base. Dimensions of 1'-0" are indicated for the proposed asphalt courses.

NOTE:  
ASPHALT PAVEMENT SECTION AS INDICATED ON PLANS.

NOTES:

1. PARKING SIGNS MOUNTED BELOW A PARENT SIGN MAY HAVE A BOTTOM HEIGHT 1' OR 1'-6" (DEPENDING ON SIGN SIZE) LESS THAN BOTTOM HEIGHT LISTED FOR PARENT SIGNS.
2. BOTTOM HEIGHT OF ALL SIGNS ARE 7' EXCEPT THE FOLLOWING:  
OBJECT MARKERS— 4'-0"  
MILE POST MARKERS— 4'-0"  
WRONG WAY/ DO NOT ENTER (FRWY RAMPS)— 4'-0"

NOTES:

1. PARKING SIGNS MOUNTED BELOW A PARENT SIGN MAY HAVE A BOTTOM HEIGHT 1' OR 1'-6" (DEPENDING ON SIGN SIZE) LESS THAN BOTTOM HEIGHT LISTED FOR PARENT SIGNS.
2. BOTTOM HEIGHT OF ALL SIGNS ARE 7' EXCEPT THE FOLLOWING:  
OBJECT MARKERS— 4'-0"  
MILE POST MARKERS— 4'-0"  
WRONG WAY/ DO NOT ENTER (FRWY RAMPS)— 4'-0"

  
**FORDLAND**  
17000 ROTUNDA DR, 1ST FLOOR SOUTH  
DEARBORN, MICHIGAN 48120-1168  
USA  




Walbridge

BUILDING SITE CODE: XXX  
FORD PROJECT NUMBER: XXXX-XX



25251 Northline Rd.  
Taylor, MI 48180  
734.947.9700  
[www.wadetrिम.com](http://www.wadetrिम.com)

PROJECT NUMBER: WAB2004 01H



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04/14/2023	• SITE PLAN PRE APPLICATION

IN CHARGE:	J CIESIELSKI
DRAWN BY:	M KAMINSKI
DESIGNED BY:	S DODSON
CHECKED BY:	B NARTKER
APPROVED BY:	E SMITH

SHEET TITLE

PAVING & ROADWAY DETAILS

FORD DWG NO. \_\_\_\_\_ REV. # \_\_\_\_\_

SHEET NUMBER \_\_\_\_\_

## C4.0

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ROATED CORE ADS UNCONTROLLED

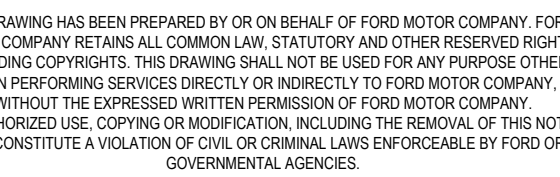
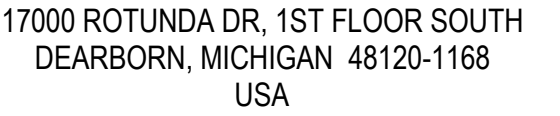
(1) *Journal of Cellular Biochemistry*, 87:209-216, 2002. © 2002 Wiley-Liss, Inc.

FIELD D IAKE

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1. ONE-HALF INCH TRANSVERSE EXPANSION JOINTS SHALL BE PLACED THROUGH THE SIDEWALK AT UNIFORM INTERVALS OF NOT MORE THAN 1 EVERY 50 FEET. A ONE-INCH EXPANSION JOINTS SHALL ALSO BE PLACED BETWEEN THE SIDEWALK AND ABUTTING PARALLEL CURB, BUILDINGS, RIGID STRUCTURES, CONCRETE DRIVES AND CONCRETE DRIVE APPROACHES. ONE-INCH EXPANSION JOINTS SHALL ALSO BE PLACED BETWEEN SIDEWALK RAMPS AND BACK OF CURB.

2. PLANE-OF-WEAKNESS JOINTS SHALL BE PLACED EVERY 5 FEET AND BE PRODUCED BY CUTTING JOINTS IN THE CONCRETE, AFTER FLOATING, TO A DEPTH OF NOT LESS THAN ONE-FOURTH THE THICKNESS OF THE SIDEWALK. THE CUT JOINTS SHALL BE NOT LESS THAN 1/8-INCH NOR MORE THAN 1/4 -INCH IN WIDTH AND SHALL BE FINISHED SMOOTH AND TRUE TO LINE.

3. ALL JOINTS SHALL BE SEALED WITH TWO-COMPONENT, COLD APPLIED, POLYUREA JOINT SEALANT PER SPECIFICATION SECTION 03 30 00. THIS INCLUDES REMOVING THE EXPANSION JOINT COVERS (ZIP-STRIP) AND SEALING JOINT.

1. SIDEWALK RAMP CONSTRUCTION AND DETECTABLE WARNING DETAILS SHALL BE IN ACCORDANCE WITH MDOT STANDARD PLAN (OR SPECIAL DETAILS) R-28-SERIES.
2. SIDEWALK RAMPS AS CALLED FOR ON THE PLANS SHALL HAVE DETECTABLE WARNINGS THAT CONTRAST VISUALLY WITH THE ADJACENT WALKING SURFACE.
3. DETECTABLE WARNING SHALL CONSIST OF 2'x2' CAST IRON DETECTABLE WARNING PLATES (QUICK CONNECT OR BOLTED PLATES) BY NEENAH FOUNDARY OR EAST JORDAN IRON WORKS "DURALAST" - NON PAINTED.



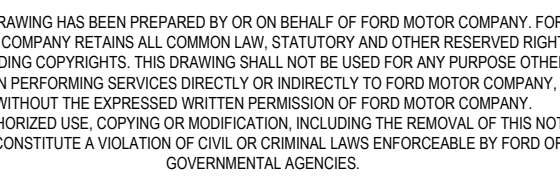
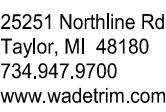
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## SIDEWALK DETAILS

## C4.1





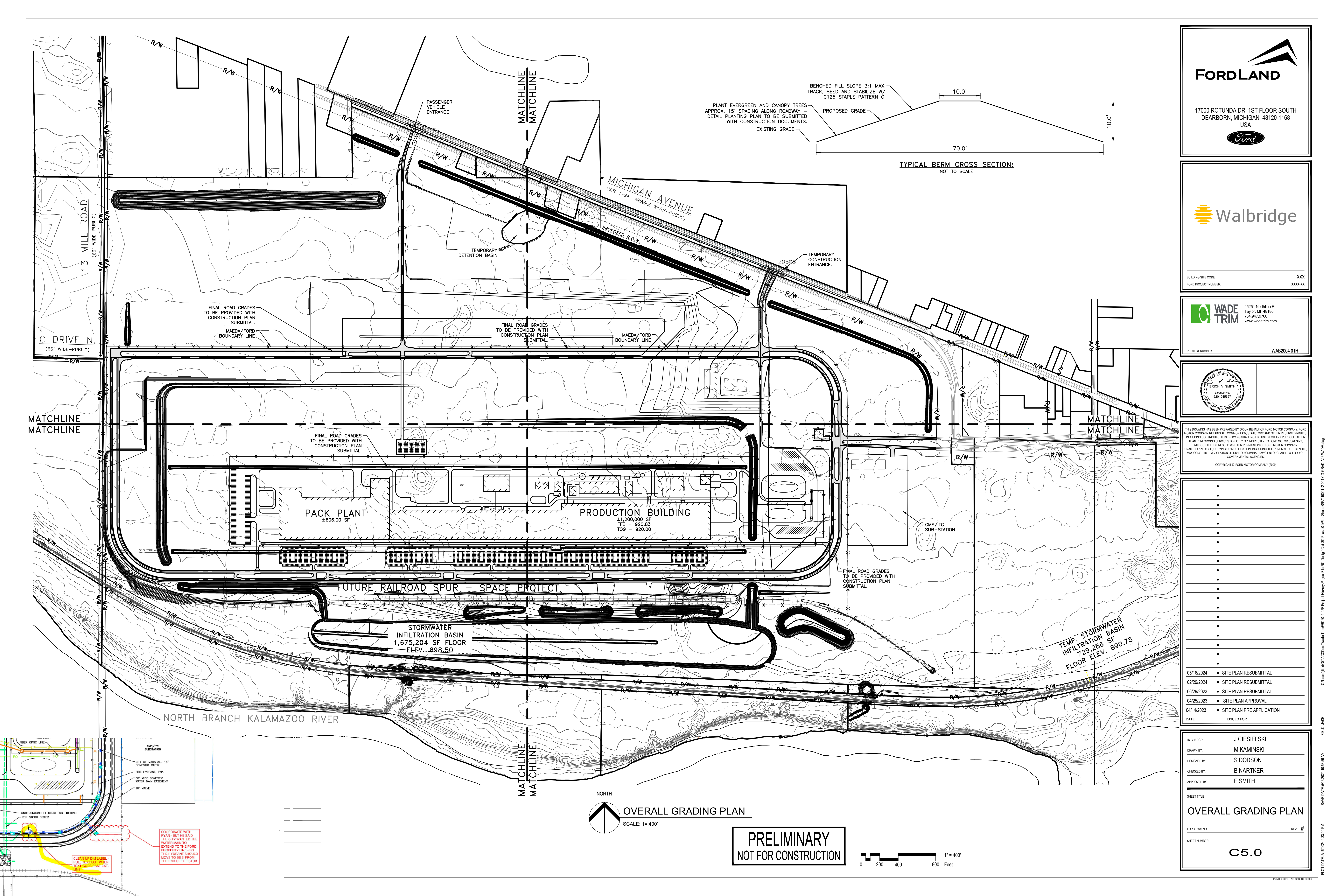
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4/2023	• SITE PLAN PRE APPLICATION

CHARGE:	J CIESIELSKI
OWN BY:	M KAMINSKI
DESIGNED BY:	S DODSON
WORKED BY:	B NARTKER
LOVED BY:	E SMITH

## OVERALL GRADING PLAN

050

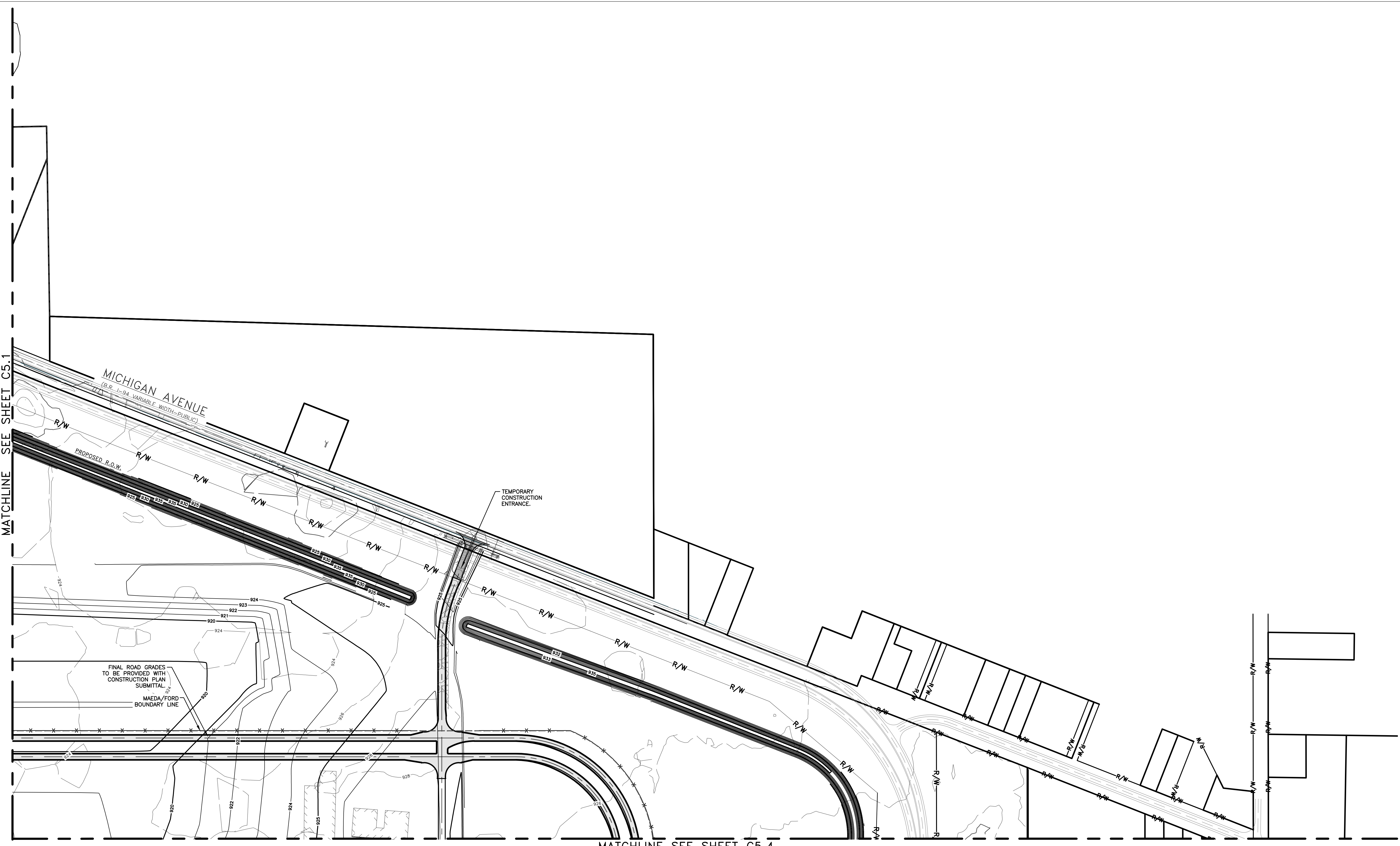
## C5.0






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NORTH

GRADING PLAN (2 OF 4)


SCALE: 1"=200'

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0 100 200 400 Feet

1" = 200'




17000 ROTUNDA DR, 1ST FLOOR SOUTH  
DEARBORN, MICHIGAN 48120-1168  
USA






BUILDING SITE CODE: XXX  
FORD PROJECT NUMBER: XXXX-XX



25251 Northline Rd.  
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04/14/2023	• SITE PLAN PRE APPLICATION

DATE ISSUED FOR

IN CHARGE:	J CIESIELSKI
DRAWN BY:	M KAMINSKI
DESIGNED BY:	S DODSON
CHECKED BY:	B NARTKER
APPROVED BY:	E SMITH

SHEET TITLE

GRADING PLAN (2 OF 4)

FORD DWG NO.	REV.	#

SHEET NUMBER

C5.2



FINAL ROAD GRADES TO BE PROVIDED WITH CONSTRUCTION PLAN SUBMITTAL.

PACK PLANT  
±606,000 SF

PRODUCTION BUILDING  
1,200,000 SF  
FEE = 920.50  
TOG = 920.00

PERMANENT PARKING AREA  
±1,400 SPACES

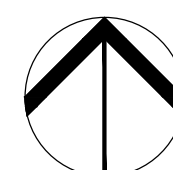
FUTURE RAILROAD SPUR - SPACE PROTECT

STORMWATER INFILTRATION BASIN  
1,675,204 SF  
FLOOR ELEV. 898.50

EX. 5'x3' BOX CULVERT

NORTH BRANCH KALAMAZOO RIVER

NORTH

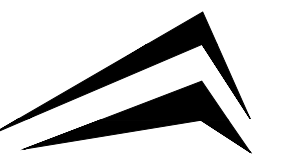


SCALE: 1"=200'

1" = 200 Feet



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04/14/2023	• SITE PLAN PRE APPLICATION

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DRAWN BY:	M KAMINSKI
DESIGNED BY:	S DODSON
CHECKED BY:	B NARTKER
APPROVED BY:	E SMITH

SHEET TITLE

GRADING PLAN (3 OF 4)

FORD DWG NO. \_\_\_\_\_ REV. # \_\_\_\_\_

SHEET NUMBER

**C5.3**

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FIELD, JAKE

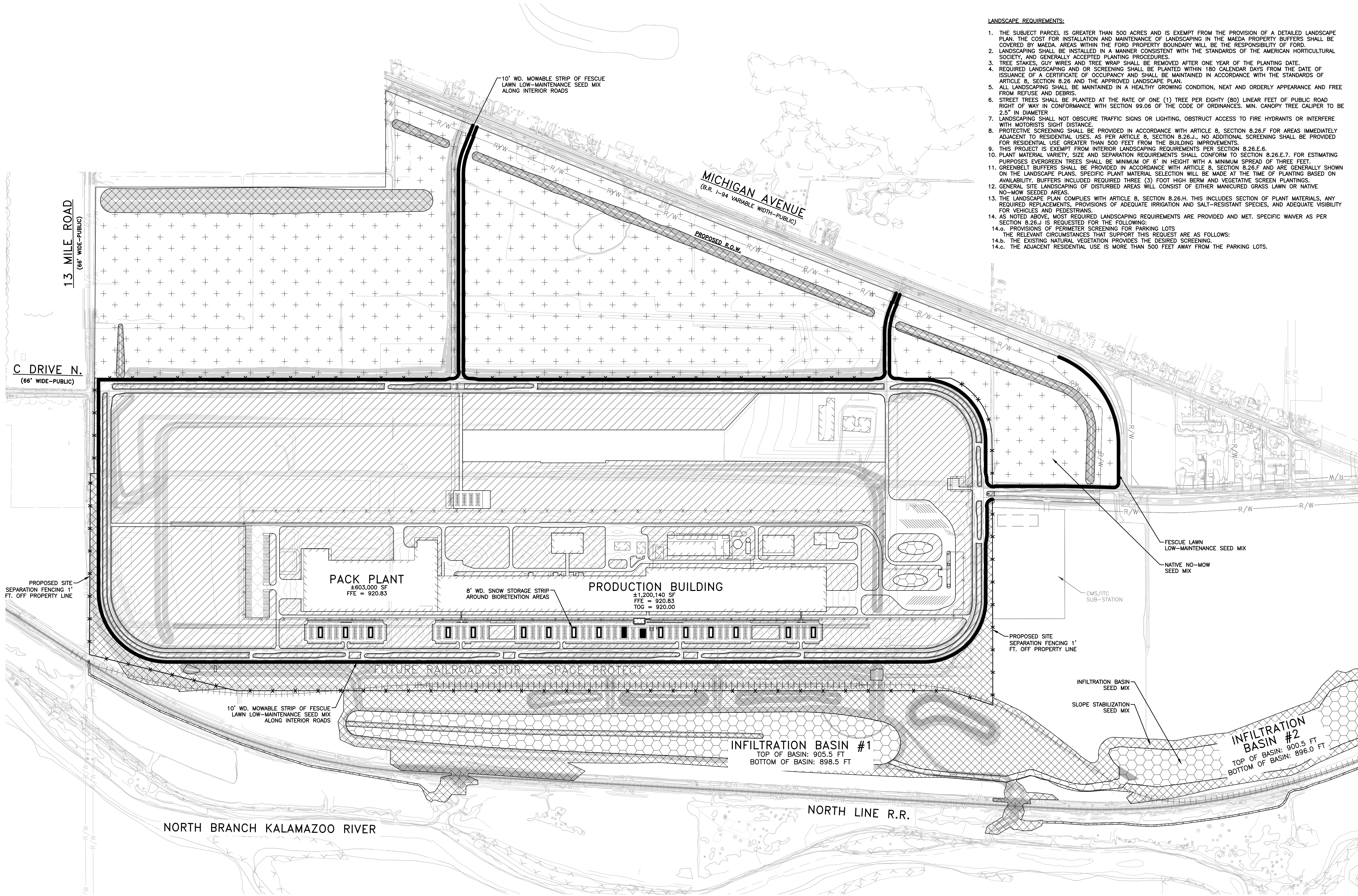
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- LANDSCAPE REQUIREMENTS:
1. THE SUBJECT PARCEL IS GREATER THAN 500 ACRES AND IS EXEMPT FROM THE PROVISION OF A DETAILED LANDSCAPE PLAN. THE COST FOR INSTALLATION AND MAINTENANCE OF LANDSCAPING IN THE MAEDA PROPERTY BUFFERS SHALL BE COVERED BY MAEDA. AREAS WITHIN THE FORD PROPERTY BOUNDARY WILL BE THE RESPONSIBILITY OF FORD.
  2. LANDSCAPING SHALL BE INSTALLED IN A MANNER CONSISTENT WITH THE STANDARDS OF THE AMERICAN HORTICULTURAL SOCIETY, AND GENERALLY ACCEPTED PLANTING PROCEDURES.
  3. TREE STAKES, GUY WIRES AND TREE WRAP SHALL BE REMOVED AFTER ONE YEAR OF THE PLANTING DATE.
  4. REQUIRED LANDSCAPING AND OR SCREENING SHALL BE PLANTED WITHIN 180 CALENDAR DAYS FROM THE DATE OF ISSUANCE OF A CERTIFICATE OF OCCUPANCY AND SHALL BE MAINTAINED IN ACCORDANCE WITH THE STANDARDS OF ARTICLE 8, SECTION 8.26 AND THE APPROVED LANDSCAPE PLAN.
  5. ALL LANDSCAPING SHALL BE MAINTAINED IN A HEALTHY GROWING CONDITION, NEAT AND ORDERLY APPEARANCE AND FREE FROM REFUSE AND DEBRIS.
  6. STREET TREES SHALL BE PLANTED AT THE RATE OF ONE (1) TREE PER EIGHTY (80) LINEAR FEET OF PUBLIC ROAD RIGHT OF WAY IN CONFORMANCE WITH SECTION 99.06 OF THE CODE OF ORDINANCES. MIN. CANOPY TREE CALIPER TO BE 2.5" IN DIAMETER
  7. LANDSCAPING SHALL NOT OBSCURE TRAFFIC SIGNS OR LIGHTING, OBSTRUCT ACCESS TO FIRE HYDRANTS OR INTERFERE WITH MOTORISTS SIGHT DISTANCE.
  8. PROTECTIVE SCREENING SHALL BE PROVIDED IN ACCORDANCE WITH ARTICLE 8, SECTION 8.26.F FOR AREAS IMMEDIATELY ADJACENT TO RESIDENTIAL USES, AS PER ARTICLE 8, SECTION 8.26.J., NO ADDITIONAL SCREENING SHALL BE PROVIDED FOR RESIDENTIAL USE GREATER THAN 500 FEET FROM THE BUILDING IMPROVEMENTS.
  9. THIS PROJECT IS EXEMPT FROM INTERIOR LANDSCAPING REQUIREMENTS PER SECTION 8.26.E.6.
  10. PLANT MATERIAL VARIETY, SIZE AND SEPARATION REQUIREMENTS SHALL CONFORM TO SECTION 8.26.E.7. FOR ESTIMATING PURPOSES EVERGREEN TREES SHALL BE MINIMUM OF 6' IN HEIGHT WITH A MINIMUM SPREAD OF THREE FEET.
  11. GREENBELT BUFFERS SHALL BE PROVIDED IN ACCORDANCE WITH ARTICLE 8, SECTION 8.26.F AND ARE GENERALLY SHOWN ON THE LANDSCAPE PLANS. SPECIFIC PLANT MATERIAL SELECTION WILL BE MADE AT THE TIME OF PLANTING BASED ON AVAILABILITY. BUFFERS INCLUDED REQUIRED THREE (3) FOOT HIGH BERM AND VEGETATIVE SCREEN PLANTINGS.
  12. GENERAL SITE LANDSCAPING OF DISTURBED AREAS WILL CONSIST OF EITHER MANICURED GRASS LAWN OR NATIVE NO-MOW SEEDING AREAS.
  13. THE LANDSCAPE PLAN COMPLIES WITH ARTICLE 8, SECTION 8.26.H. THIS INCLUDES SECTION OF PLANT MATERIALS, ANY REQUIRED REPLACEMENTS, PROVISIONS OF ADEQUATE IRRIGATION AND SALT-RESISTANT SPECIES, AND ADEQUATE VISIBILITY FOR VEHICLES AND PEDESTRIANS.
  14. AS NOTED ABOVE, MOST REQUIRED LANDSCAPING REQUIREMENTS ARE PROVIDED AND MET. SPECIFIC WAIVER AS PER SECTION 8.26.J IS REQUESTED FOR THE FOLLOWING:
    - 14.a. PROVISIONS OF PERIMETER SCREENING FOR PARKING LOTS
    - 14.b. THE EXISTING NATURAL VEGETATION PROVIDES THE DESIRED SCREENING.
    - 14.c. THE ADJACENT RESIDENTIAL USE IS MORE THAN 500 FEET AWAY FROM THE PARKING LOTS.

LEGEND

- FESCUE LAWN LOW-MAINTENANCE SEED MIX
- NATIVE NO-MOW SEED MIX
- SLOPE STABILIZATION SEED MIX
- INFILTRATION BASIN SEED MIX
- 10' WD. MOWABLE STRIP

NOTES

1. FESCUE LAWN LOW-MAINTENANCE AND NATIVE NO-MOW MIXES TO RECEIVE 4" ON-SITE TOPSOIL.
2. INFILTRATION BASIN AND SLOPE STABILIZATION MIXES TO RECEIVE 4" ON-SITE TOPSOIL OR PROGNOSIS AS AN ALTERNATE AS LONG AS IT MEETS PERFORMANCE SPECIFICATIONS FOR STANDARD SEEDING AND TOPSOIL APPLICATION.
3. AT THE DISCRETION AND DIRECTION OF THE CITY OF MARSHALL, THE SLOPE STABILIZATION SEED MIX APPLICATION MAY BE REQUIRED AS AN ALTERNATIVE TO THE INFILTRATION BASIN SEED MIX APPLICATION AND PERFORMANCE STANDARD SPECIFICATIONS FOR SEEDING SHALL APPLY.
4. SEE L-503 FOR SEED MIX SCHEDULES

NORTH

SEEDING PLAN

SCALE: 1"=400'



**FORDLAND**

17000 ROTUNDA DR, 1ST FLOOR SOUTH  
DEARBORN, MICHIGAN 48120-1168  
USA

BLUE OVAL  
BATTERY PARK  
MICHIGAN  
BATTERY PLANT

MARSHALL CALHOUN MI

FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

A/E OF RECORD LOGO

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Taylor, MI 48180  
734.947.9700  
www.waide.trim.com

A/E OF RECORD REGISTRATION SEAL

**Walbridge**

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04/25/24	• BOBPM SITE & UTILITY PLANS ISSUE FOR PERMIT
03/18/24	• BOBPM SITE & UTILITY PLANS ISSUE FOR PERMIT
09/22/23	• BOBPM SITE & UTILITY PLANS ISSUE FOR PERMIT
08/31/23	• BOBPM SITE & UTILITY PLANS ISSUE FOR PERMIT
DATE	ISSUED FOR

A/E TEAM INFORMATION	
IN CHARGE:	J. CIESIELSKI
DRAWN BY:	M. TILLEY
DESIGNED BY:	S. DODSON
CHECKED BY:	B. NARTKER
APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01
SHEET TITLE	
SEEDING PLAN	
SHEET NUMBER	
L-101	

**811**

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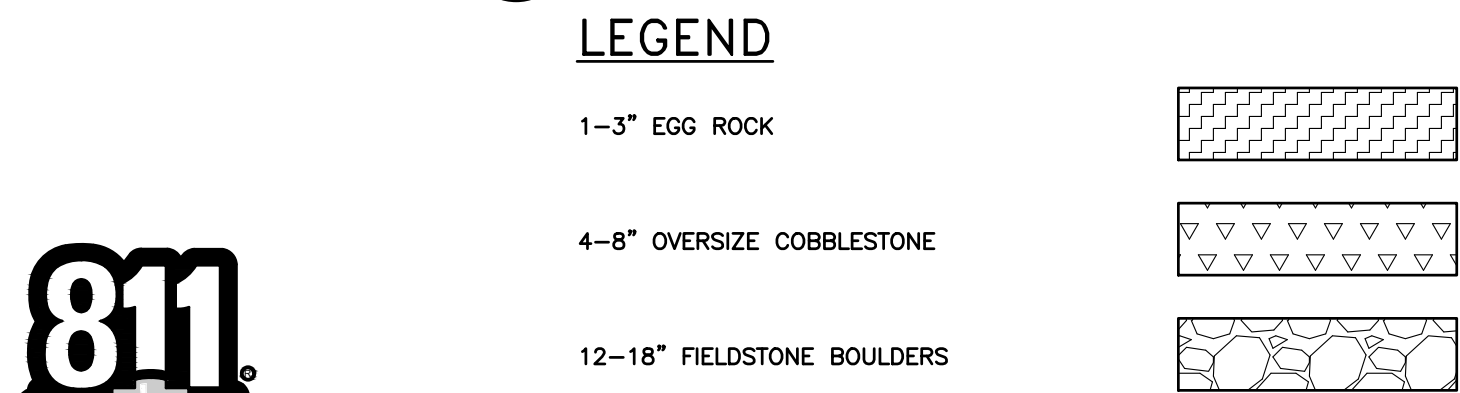
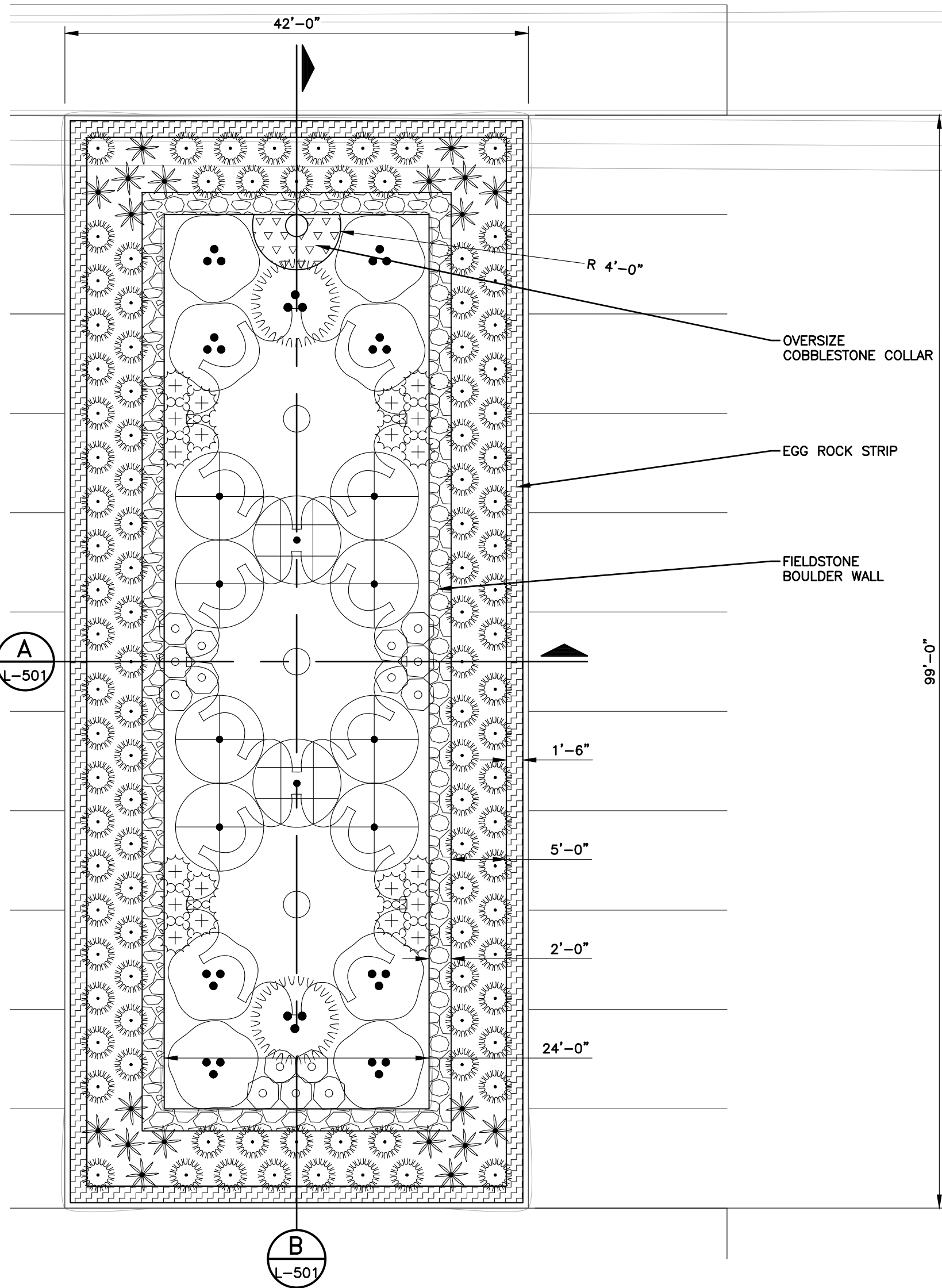
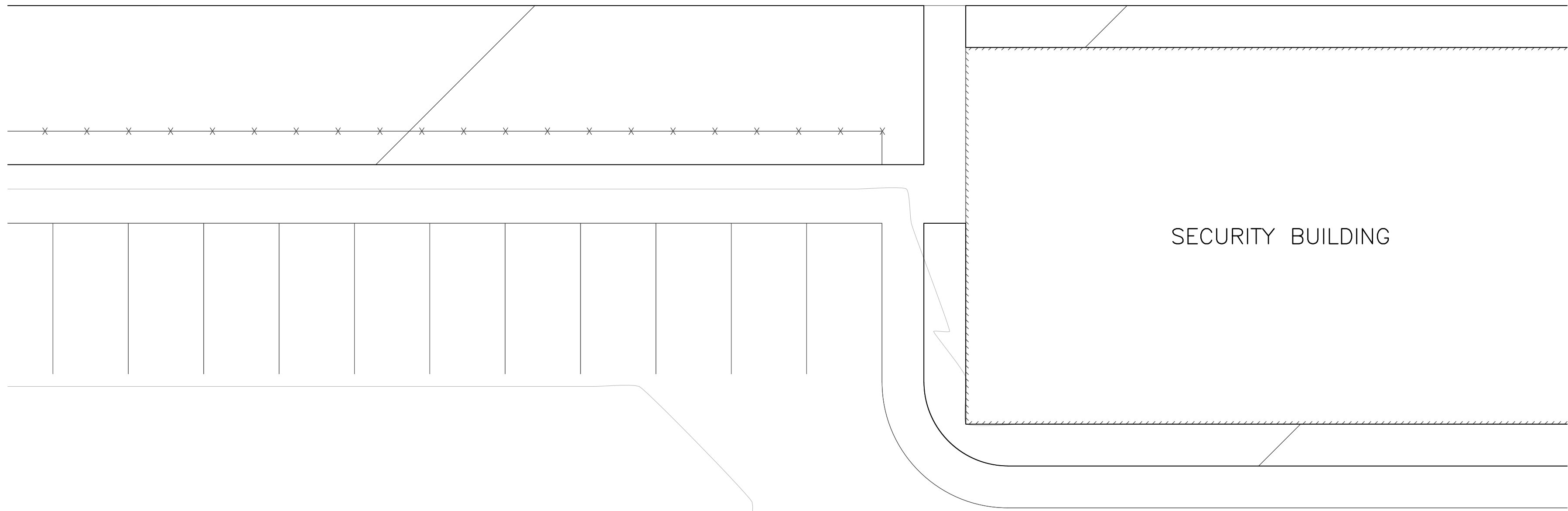
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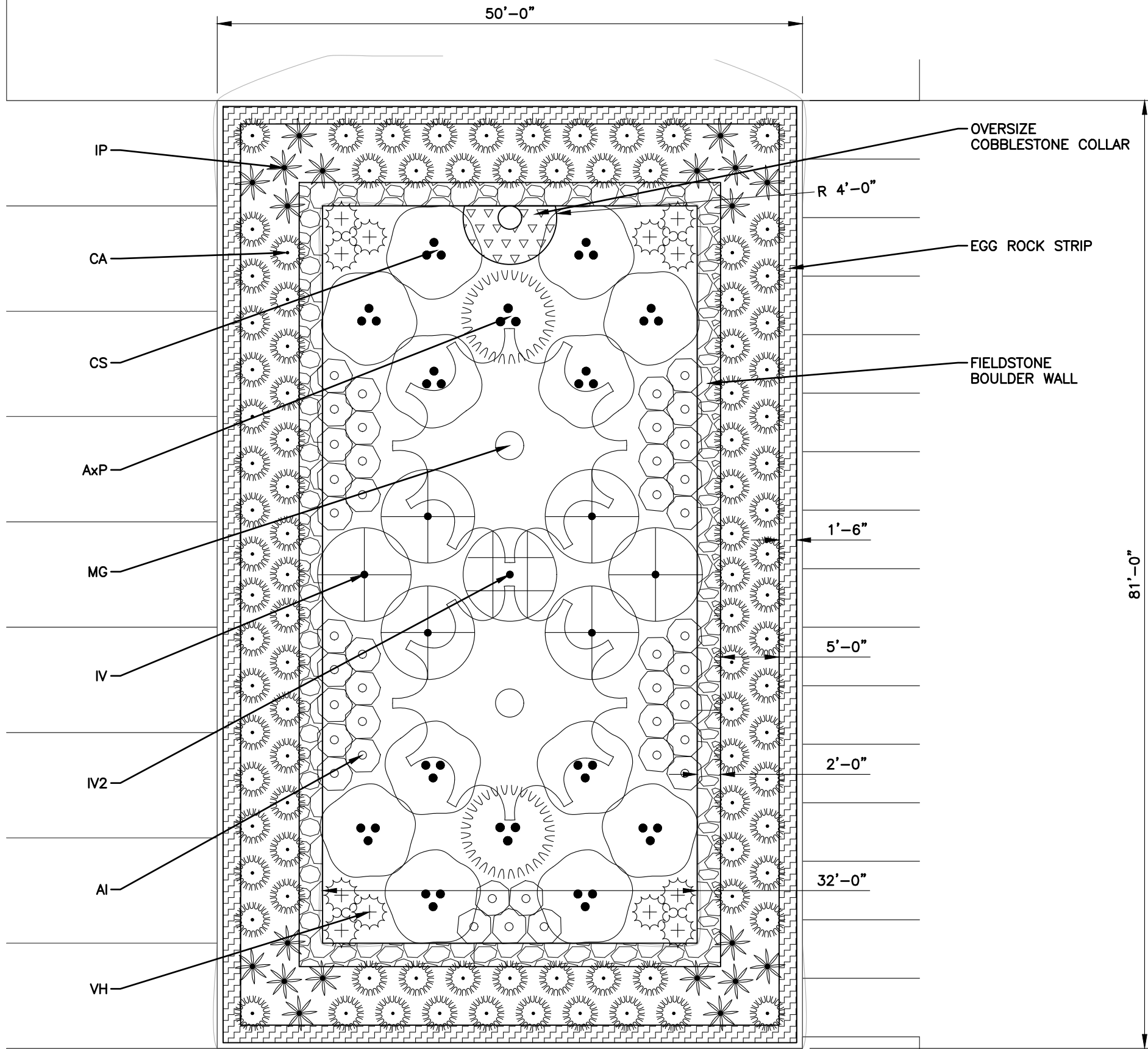


- NOTES**
1. PLANT SCHEDULE QUANTITIES ON THIS SHEET REFLECT ALL BIORETENTION AREAS WITHIN THE PARKING LOT.
  2. SEE L-501 FOR BIORETENTION SECTIONS
  3. SEE L-502 FOR PLANTING DETAILS



**PLANT SCHEDULE BIORETENTION**

SYMBOL	CODE	QTY	BOTANICAL NAME	COMMON NAME	ROOT	DBH	REMARKS
<b>TREES</b>							
	MG	5	Metasequoia glyptostroboides	Dawn Redwood	B&B	3-3.5" Cal.	Well-branched
<b>SHRUBS</b>							
	AxP	4	Aronia x prunifolia	Purple Fruited Chokeberry	5 gal.	24-36" Ht.	Full
	CS	20	Cornus sericea 'Budd's Yellow'	Budd's Yellow Twig Dogwood	5 gal.	24-36" Ht.	Full
	IV	14	Ilex verticillata	Winterberry	5 gal.	24-36" Ht.	Full
	IV2	3	Ilex verticillata 'Jim Dandy'	Jim Dandy Winterberry	5 gal.	24-36" Ht.	Full
<b>ANNUALS/PERENNIALS</b>							
	AI	66	Asclepias incarnata	Swamp Milkweed	3 gal.		
	CA	200	Cenchrus alopecuroides 'Hameln'	Hameln Fountain Grass	3 gal.		
	IP	40	Iris prismatica	Blue Flag Iris	3 gal.		
	VH	32	Verbena hastata	Blue Vervain	3 gal.		





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USA



BLUE OVAL  
BATTERY PARK  
MICHIGAN  
BATTERY PLANT

MARSHALL    CALHOUN    MI

FORD LAND DOCUMENT PROJECT NUMBER: 1000112-001

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DATE ISSUED FOR

A/E TEAM INFORMATION

IN CHARGE: J. CIESIELSKI

DRAWN BY: M. TILLEY

DESIGNED BY: S. DODSON

CHECKED BY: B. NARTKER

APPROVED BY: E. SMITH

A/E PROJECT NUMBER: WAB2004.01

SHEET TITLE

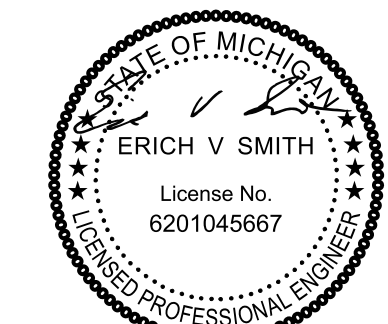
BIORETENTION ENLARGEMENT

SHEET NUMBER

L-103

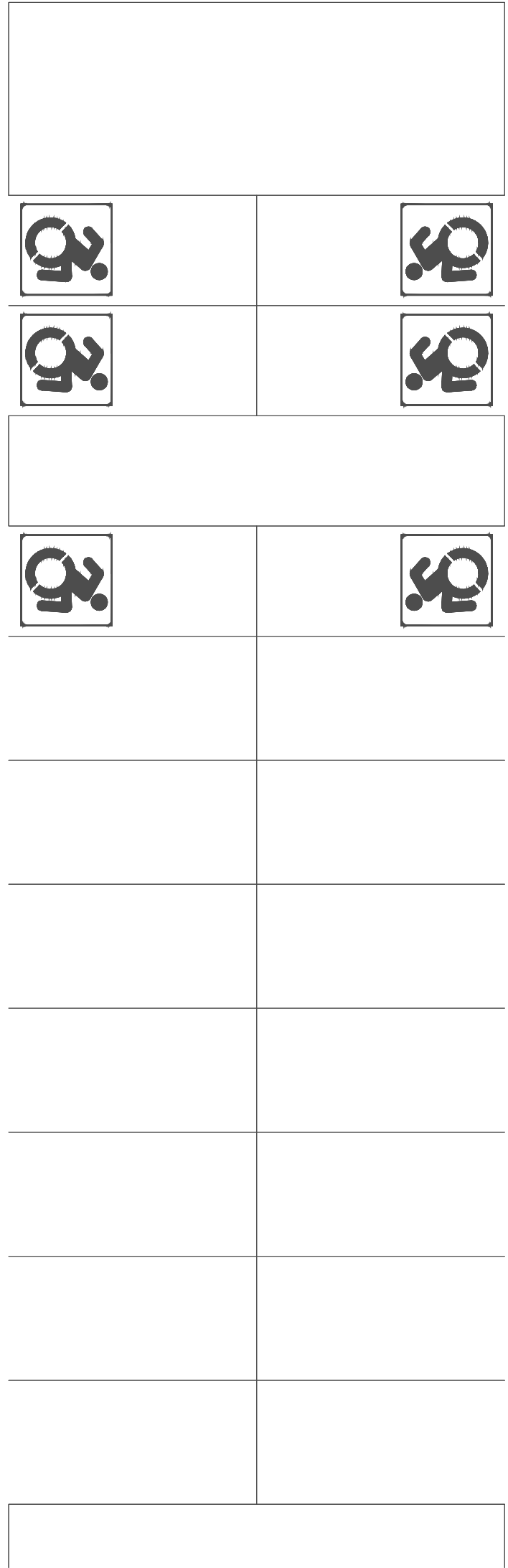
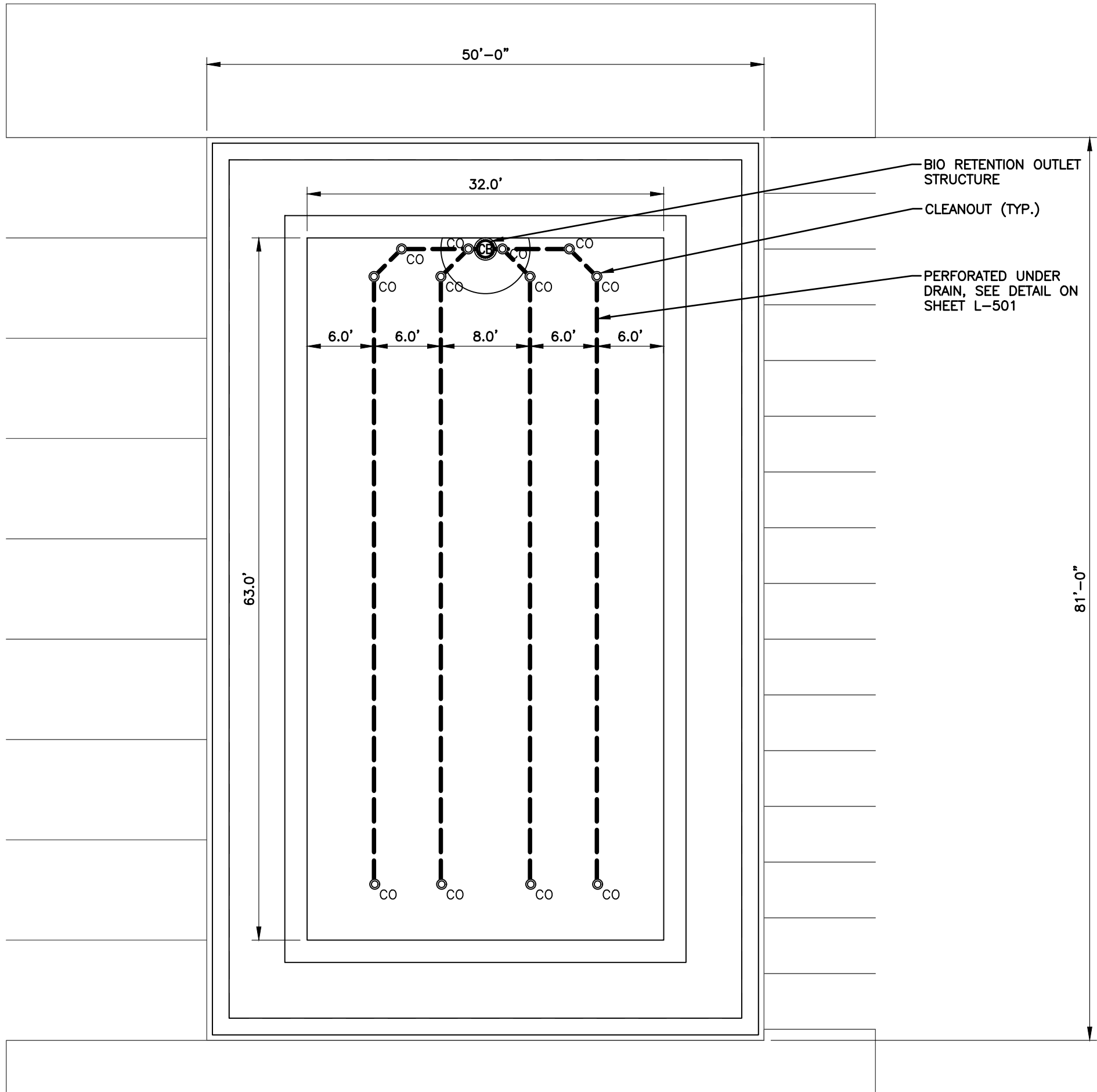
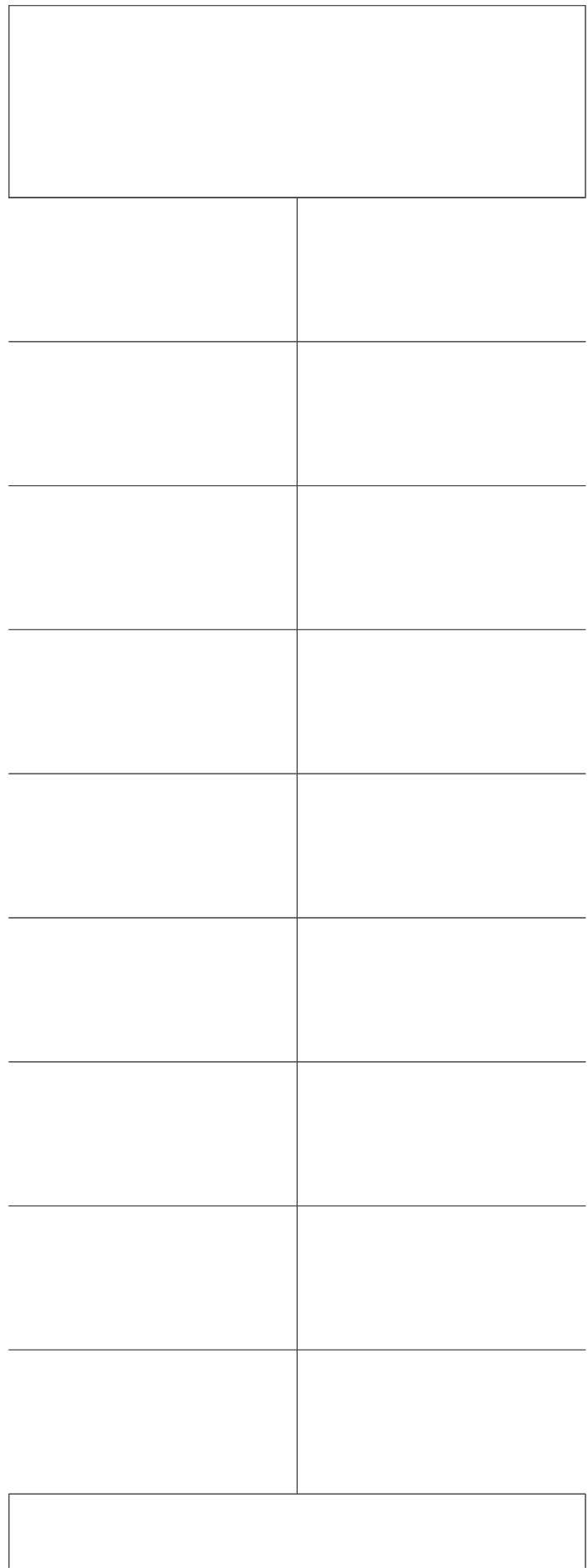
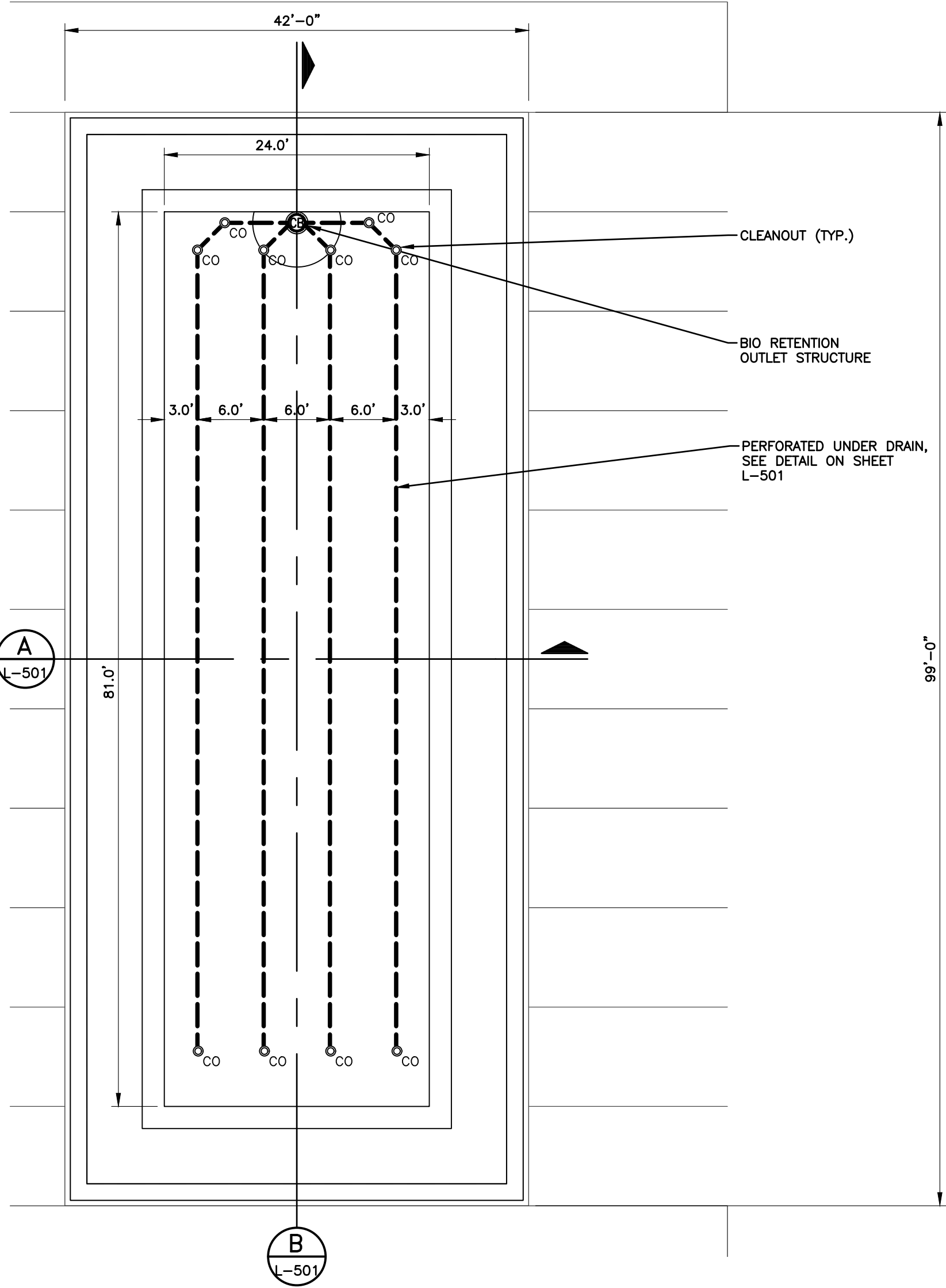
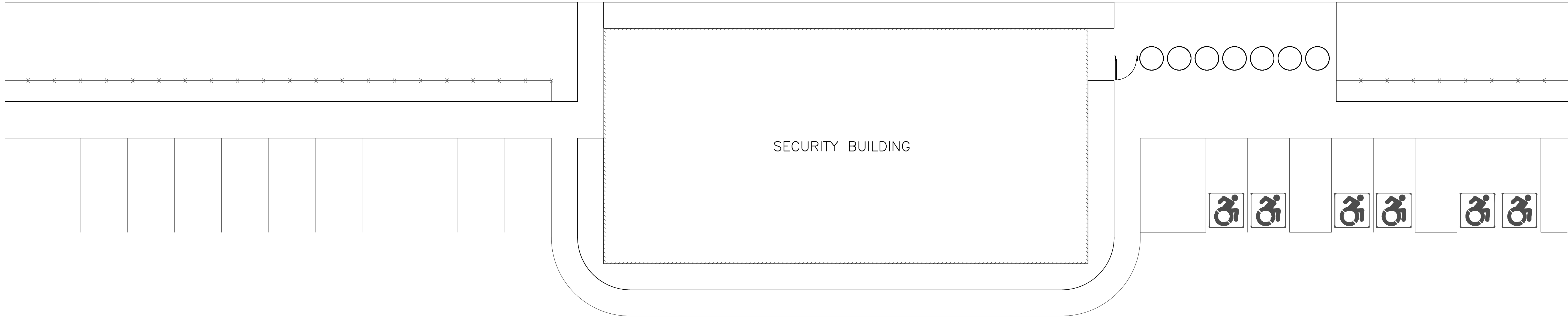


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**BLUE OVAL**  
**BATTERY PARK**  
**MICHIGAN**  
**BATTERY PLANT**

MARSHALL    CALHOUN    MI

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DATE	ISSUED FOR

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DRAWN BY: M. TILLEY

DESIGNED BY: S. DODSON

CHECKED BY: B. NARTKER

APPROVED BY: E. SMITH

A/E PROJECT NUMBER: WAB2004.01

SHEET TITLE

**STORMWATER MANAGEMENT PLAN**

SHEET NUMBER

L-103A









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APPROVED BY:	E. SMITH
A/E PROJECT NUMBER:	WAB2004.01
SHEET TITLE	
SOUTH BERM ENLARGEMENT	
SHEET NUMBER	
L-105	

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5/16/2024 2:18:17 PM SAVE DATE: 5/16/2024 2:07:59 PM FIELD, JAKE

ISSN 1547-7362/02/0000-0000\$15.00/0

PACK PLANT  
±603,000 SF  
FFE = 920.83

PRODUCTION BUILDING  
±1,200,140 SF  
FFE = 920.83  
TOG = 920.00

FUTURE RAILROAD SPUR - SPACE PROTECT

### REPEATED BERM PLANTING

PS (3)-

LC (3)

CC (1)-





11. (2)

INFILTRATION BASIN #1  
TOP OF BASIN: 905.5 FT  
BOTTOM OF BASIN: 898.5 FT

NORTH LINE R.R.

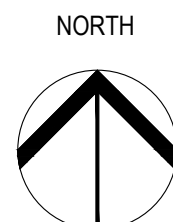
NORTH BRANCH KALAMAZOO RIVER

### PLANT SCHEDULE SOUTH BERM

<u>SYMBOL</u>	<u>CODE</u>	<u>QTY</u>	<u>BOTANICAL NAME</u>	<u>COMMON NAME</u>	<u>ROOT</u>	<u>HEIGHT</u>	<u>REMARKS</u>
<u>TREES</u>							
	AL	78	Amelanchier laevis	Allegheny Serviceberry	B&B	7-8' Ht.	Multi-stem
	CC	38	Cercis canadensis	Eastern Redbud	B&B	7-8' Ht.	Multi-stem
	PG	117	Picea glauca	White Spruce	B&B	7-8' Ht.	Unsheared
	PS	116	Pinus strobus	White Pine	B&B	7-8' Ht.	Unsheared

## NOTES

1. PLANT SCHEDULE QUANTITIES ON THIS SHEET REFLECT ALL PLANTINGS ALONG THE SOUTH BERMS.
2. SEE L-502 FOR PLANTING DETAILS



## SOUTH BERM ENLARGEMENT

SCALE: 1"=200'



Know what's **below**.  
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1-502

5/16/2024 2:18:20 PM	SAVE DATE: 5/16/2024 2:07:59 PM	FIELD, JAKE
----------------------	---------------------------------	-------------

GRANTED CYBERCASS LIMITED

1. STAKE TREES UNDER 4" CALIPER
2. GUY TREES 4" CALIPER & OVER
3. CONTRACTOR TO VERIFY PERCOLATION OF PLANTING PIT PRIOR TO INSTALLATION
4. FIRST LATERAL ROOTS SHALL BE INSTALLED EVEN WITH SURROUNDING GRADE. PLACE ROOT BALL WITH ROOT FLARE 1" ABOVE GRADE
5. SET STAKES VERTICAL & EVENLY SPACED
6. STAKES OR GUYS TO BE SET ABOVE 1ST BRANCH
7. TREES WITH CIRCLING ROOTS SHALL BE REJECTED
8. CONTRACTOR SHALL REMOVE GUY WIRES DURING YEAR 2 OR 3 OF MAINTENANCE AGREEMENT

SPACED

STALLED

FACE

OVE GRADE

BE REJECTED

3X ROOT BALL DIA.

5'-0" TYP.

6"

10"

1/2" DIA. BLACK RUBBER HOSE W/ GUY CABLE (2) #11 GALV. WIRE (3 PER TREE) W/GALV. TURNBUCKLE

2" x 2" HARDWOOD STAKES TO EXTEND 18" BELOW TREE PIT IN UNDISTURBED SOIL

TREE WRAP

SHREDDED BARK MULCH 3" DEPTH (6" DIA.)

AMENDED SANDY LOAM TOPSOIL

GUYS AT 60° ANGLE

FIN. GRADE WITH LAWN SLOPED AWAY FROM TREE

REMOVE BURLAP & CUT TWINE FROM TOP 1/3 OF BALL

PLANT MIX, SEE SPECIFICATIONS

SCARIFY SOIL TO 4" DEPTH AND RECOMPACT

12" MIN. BETWEEN ROOTBALL AND EDGE OF PLANT PIT

- CONTRACTOR TO VERIFY PER
- GRADING
- CONTRACTOR SHALL REMOVE
- FIRST LATERAL ROOTS SHALL EVEN WITH SURROUNDING GROUND. ROOT BALL WITH ROOT FLAPS
- SET STAKES VERTICAL & EVEN
- STAKES OR GUYS TO BE SPACED
- TREES WITH CIRCLING ROOTS
- CONTRACTOR SHALL REMOVE YEAR 2 OR 3 OF MAINTENANCE

2" x 2" HARDWOOD STAKES

**NOTES:**

1. GUYING PLAN (TWO OVER)
2. STAKING PLAN (TWO CALIPER)
3. FOR ALL TREES, STAKES MUST BE SET UNIFORMLY IN THE SET PLUMB
4. SEE SHADE AND ANGLE FOR TREE PLANTING

120° 120° 180° 180° 120°

NEW BLACK RUBBER HOSE GUY OR STAKE ABOVE

DOUBLE STRAND # 11 GALV. WIRE

GUYING CABLE SECURED

GALVANIZED TURNBUCKLE

1. GUYING PLAN (TREE 4" CALIPER AND OVER)
2. STAKING PLAN (TREE UNDER 4" CALIPER)
3. FOR ALL TREES, ALIGN STAKES UNIFORMLY IN THE SAME DIRECTION, SET PLUMB
4. SEE SHADE AND EVERGREEN TREE PLANTING DETAILS

Know what's **below**.  
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Botanical Name	Common Name	PLS lbs/ac
GRASSES, SEDGES, & RUSHES		
<i>Bouteloua curtipendula</i>	Side-oats Grama	3.28
<i>Sporobolus compositus</i>	Rough Dropseed	0.31
<i>Carex brevior</i>	Plains Oval Sedge	0.13
<i>Juncus tenuis</i>	Path Rush	0.03
<i>Koeleria cristata</i>	June Grass	0.13
<i>Sporobolus heterolepis</i>	Prairie Dropseed	0.13
<i>Bromus kalmii</i>	Prairie Brome	0.06
<i>Panicum virgatum</i>	Switchgrass	0.25
<i>Schizachyrium scoparium</i>	Little Bluestem	1.00
PERENNIALS		
<i>Achillea millefolium</i>	Yarrow	0.03
<i>Allium cernuum</i>	Nodding Wild Onion	0.06
<i>Asclepias tuberosa</i>	Butterfly Milkweed	0.03
<i>Aster azureus</i>	Sky Blue Aster	0.03
<i>Cassia fasciculata</i>	Partridge Pea	0.75
<i>Coreopsis lanceolata</i>	Lance-leaf Coreopsis	0.50
<i>Liatris aspera</i>	Rough Blazingstar	0.02
<i>Monarda fistulosa</i>	Wild Bergamot	0.03
<i>Penstemon digitalis</i>	Smooth Penstemon	0.03
<i>Petalostemum purpureum</i>	Purple Prairie Clover	0.25
<i>Potentilla arguta</i>	Prairie Cinquefoil	0.03
<i>Rudbeckia hirta</i>	Black-eyed Susan	0.31
<i>Solidago nemoralis</i>	Old-field Goldenrod	0.02
<i>Verbena stricta</i>	Hoary Vervain	0.06
ANNUALS		
<i>Lolium multiflorum</i>	Annual Rye	5.00
<i>Avena sativa</i>	Seed Oats	2.00

Botanical Name	Common Name	PLS lbs/ac
GRASSES, SEDGES & RUSHES		
<i>Andropogon gerardii</i>	Big Bluestem	0.75
<i>Bouteloua curtipendula</i>	Side-oats Grama	0.75
<i>Carex molesta</i>	Field Oval Sedge	0.06
<i>Carex vulpinoidea</i>	Fox Sedge	0.06
<i>Deschampsia cespitosa</i>	Tufted Hairgrass	0.25
<i>Elymus canadensis</i>	Canada Wild Rye	1.00
<i>Elymus virginicus</i>	Virginia Wild Rye	1.00
<i>Juncus tenuis</i>	Path Rush	0.31
<i>Schizachyrium scoparium</i>	Little Bluestem	0.06
<i>Sorghastrum nutans</i>	Indian Grass	0.25
<i>Sporobolus cryptandrus</i>	Sand Dropseed	0.25
TEMPORARY GRASS COVER		
<i>Lolium multiflorum</i>	Annual Ryegrass	8.00
<i>Avena sativa</i>	Seed Oats	32.00

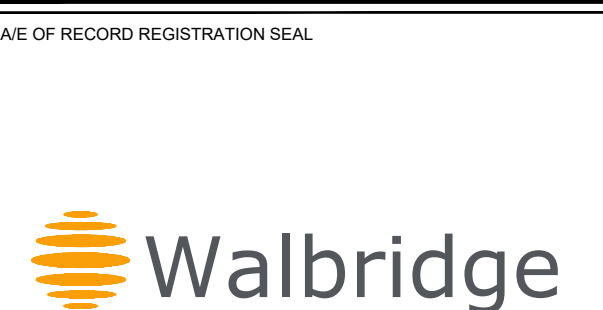
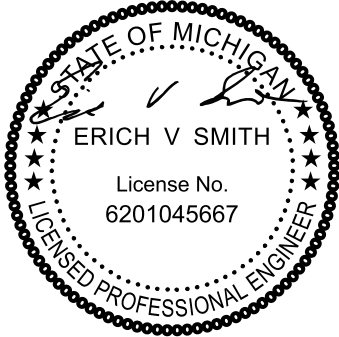
Botanical Name	Common Name	PLS lbs/ac
GRASSES		
<i>Andropogon gerardii</i>	Big Bluestem	0.75
<i>Calamagrostis canadensis</i>	Blue-joint Grass	0.20
<i>Carex crinita</i>	Fringed Sedge	0.15
<i>Carex vulpinoidea</i>	Fox Sedge	0.20
<i>Elymus virginicus</i>	Virginia Wild Rye	1.50
<i>Glyceria grandis</i>	Reed Manna Grass	0.20
<i>Leersia oryzoides</i>	Rice Cutgrass	0.30
<i>Panicum virgatum</i>	Switchgrass	0.30
<i>Scirpus atrovirens</i>	Green Bulrush	0.15
<i>Scirpus cyperinus</i>	Woolgrass	0.15
<i>Sorghastrum nutans</i>	Indian Grass	0.75
<i>Spartina pectinata</i>	Prairie Cordgrass	0.40
COVER CROP		
<i>Avena sativa</i>	Seed Oats	30.00

Botanical Name	Common Name	PLS lbs/ac
GRASSES		
Festuca brevipila	Hard Fescue	40.00
Festuca ovina	Sheep Fescue	30.00
Festuca rubra commutata	Chewings Fescue	70.00
Festuca rubra arenaria	Creeping Red Fescue	60.00

1. ALL PLANTS TO BE INSTALLED IN ACCORDANCE WITH AMERICAN ASSOCIATION OF NURSERYMEN LANDSCAPE STANDARDS.
2. CONTRACTOR SHALL PROVIDE A PLANTING MIXTURE MEETING THE FOLLOWING REQUIREMENTS. IF THE ENGINEER HAS ANY CONCERNS WITH THE QUALITY OF THE PLANTING MIXTURE, THE ENGINEER SHALL BE ALLOWED TWO WEEKS TO OBTAIN SOIL TEST TO DETERMINE NUTRIFICATION COMPLIANCE. NO PLANT MATERIAL SHALL BE PLANTED PRIOR TO ENGINEER APPROVAL OF PLANTING MIXTURE. ALL PLANT MATERIAL SHALL BE MAINTAINED BY THE CONTRACTOR IN A VIGOROUS GROWING CONDITION DURING THIS TIME AT NO ADDITIONAL COST.
3. SPACING OF PLANT MATERIALS SHALL BE AS SHOWN ON DRAWING OR ON PLANT LIST. THE ENGINEER SHALL REVIEW THE PLACEMENT OF PLANT MATERIAL PRIOR TO AND AFTER INSTALLATION, AND RESERVES THE RIGHT TO ADJUST LAYOUT TO ACCOMMODATE SITE CONDITIONS AND DESIGN INTENT.
4. ALL PLANT MATERIALS SHALL CONFORM TO PLANT SCHEDULES. SIZES SHALL BE THE MINIMUM STATED ON THE PLANT LIST OR LARGER. ALL MEASUREMENTS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "A.A.N. STANDARDS FOR NURSERY STOCK."
5. NO PLANT SHALL BE PUT INTO THE GROUND BEFORE ROUGH GRADING HAS BEEN FINISHED AND REVIEWED BY THE ENGINEER.
6. FINAL PLANT LOCATIONS SHALL BE MARKED BY CONTRACTOR THREE WORKING DAYS PRIOR TO PLANTING FOR ENGINEER REVIEW.
7. ALL PLANTED PLANTS SHALL BEAR THE SAME RELATIONSHIP TO FINISHED GRADE AS THE PLANTS ORIGINAL GRADE BEFORE DIGGING.
8. PLANT MATERIAL, ESPECIALLY EVERGREENS, TO BE PLANTED HIGHER THAN NORMAL WHEN HEAVY SOIL CONDITIONS (CLAY, ETC.) PREVAIL.
9. IF FOR ANY REASON ANY BALLED AND BURLAPED PLANT MATERIALS NEED TO BE STORED ON SITE LONGER THAN A 24-HOUR PERIOD, THEIR ROOT BALLS SHALL BE PROTECTED. ALL PLANTS SHALL BE THOROUGHLY WATERED EACH DAY THEY ARE STORED ON SITE. PLANTS MAY BE STORED ON SITE FOR A MAXIMUM OF TWO (2) WEEKS, OR 14 DAYS. ANY PLANTS ALLOWED TO DRY OUT AS DETERMINED BY THE ENGINEER WILL BE REJECTED.
10. NO CONTAINER GROWN STOCK WILL BE ACCEPTED IF IT IS ROOT BOUNDED. ALL WRAPPING MATERIALS MADE OF SYNTHETIC OR PLASTICS SHALL BE COMPLETELY REMOVED AT TIME OF PLANTING.
11. THE CONTRACTOR SHALL FILL PLANT PIT WITH PREPARED PLANT MIX TO ½ DEPTH OF ROOT BALL OR ROOT MASS, PACK FIRMLY, BURLAP WITH WATER; THEN FOR BALLED AND BURLAPED MATERIAL, THE BURLAP AND ALL LACING (INCLUDING WIRE BASKET IF NECESSARY) SHALL BE REMOVED FROM THE UPPER 1/3 OF ROOTBALL, THEN FINISH BACKFILLING ADDING SOIL FERTILIZER TO TOP OF PLANT MIX, WATER FIRMLY AND WATER. A SAUCER SHALL BE PLACED AROUND EVERY PLANT AND SHALL BE APPROVED PRIOR TO PLACEMENT OF ANY MULCH.
12. ALL DISTURBED LAWN AREAS SHALL BE RESTORED WITH 4-INCHES OF TOPSOIL, SPREAD, FINE GRADED, AND SEEDED/SODDED AS SPECIFIED. PRIOR TO INSTALLATION OF TOPSOIL, LOOSEN SUBGRADE TO A DEPTH OF 2 INCHES. THIS WORK SHALL BE INCIDENTAL TO THE PROJECT.
13. TOPSOIL SHALL CONSIST OF FRABLE, SHREDDED, AND SCREENED SOIL REASONABLY FREE OF GRASS, ROOTS, WEEDS, STICKS, STONES OR OTHER FOREIGN MATERIALS. THE TOPSOIL MATERIAL SHALL BE APPROVED BY THE ENGINEER PRIOR TO PLACEMENT. SOIL COMPOSITION SHOULD CONTAIN AN ORGANIC CONTENT OF 2 TO 6 PERCENT AND BE CLASSIFIED AS A LOAM OR SANDY LOAM AS SPECIFIED IN THE "GUIDE TO U.S.D.A. SOIL TEXTURAL CLASSIFICATION".
14. ALL TREES AND SHRUBS ARE TO BE FERTILIZED ONCE ROOTS SYSTEM IS ESTABLISHED WITH AGRIFORM 21-GRAM FERTILIZER TABLETS AT RATES RECOMMENDED BY MANUFACTURER.
15. ALL PLANTS AND STAKES SHALL BE SET PLUM UNLESS OTHERWISE SPECIFIED.
16. AT PLANTING TIME, ALL DEAD AND BROKEN BRANCHES SHALL BE PRUNED ON ALL DECIDUOUS TREES.
17. CONTRACTOR SHALL APPLY ENGINEER APPROVED PRE-EMERGENT HERBICIDE, "PREEN" OR EQUAL, TO SHRUB AND GROUND COVER PLANTING AREAS AT THE TIME OF PLANTING (IF SPRING PLANTED) OR THE FOLLOWING SPRING. CONTRACTOR SHALL ENSURE THE PRE-EMERGENT HERBICIDE IS APPLIED TO THE ENTIRE PLANTING AREA. HERBICIDE SHALL BE APPLIED ACCORDING TO MANUFACTURERS SPECIFICATIONS AND IN ACCORDANCE WITH SOUND HORTICULTURAL PRACTICES.
18. ALL TREES, SHRUBS AND PERENNIAL GROUND COVER SHALL RECEIVE A MINIMUM DEPTH OF THREE INCHES DOUBLE SHREDDED HARDWOOD BARK MULCH. WHERE PLANT BEDS MEET PAVEMENTS, LAWN, OR STEEL EDGING CUT THE GRADE TO ALLOW FOR MULCH AND THREE-INCH DROP FROM ADJOINING FINISH GRADE.
19. ALL PLANT BEDS SHALL BE EXCAVATED TO A MINIMUM DEPTH OF 8-INCHES AND BACKFILLED WITH SPECIFIED PLANT MIX AS PER PLANTING BED DETAILS. BEDS SHALL BE EDGED WITH METAL EDGING AROUND PERIMETER. ALL EDGING SHALL BE 4" WIDE - 12 GAUGE STEEL, COLOR BLACK. CONTRACTOR SHALL LAYOUT EDGING FOR APPROVAL AND INSTALL PER MANUFACTURERS SPECIFICATIONS.
20. PLANTS SHALL BE WATERED BEFORE AND AFTER PLANTING IS COMPLETE. ALL TREES MUST BE STAKED, FERTILIZED AND MULCHED AND SHALL BE GUARANTEED TO EXHIBIT A NORMAL GROWTH CYCLE FOR AT LEAST ONE (1) FULL YEAR FOLLOWING PLANTING, ALL DISEASED, DAMAGED, OR DEAD MATERIAL SHOWN ON THE SITE PLAN SHALL BE REPLACED BY THE END OF THE FOLLOWING GROWING SEASON.
21. APPLICATIONS OF FERTILIZER BEYOND THE INITIAL TOPSOIL AND SEEDING SHALL BE A FERTILIZER WITH NO PHOSPHOROUS.

1. MIXTURE SHALL BE A MIXTURE OF 8 PARTS TOPSOIL, 2 PARTS MEDIUM-COARSE SAND, AND 1 PART FERTILIZER. THE MIXTURE SHALL BE APPLIED TO THE PLANTING AREA AT THE RATE OF 10 CUBIC YARDS PER ACRE BY THE MANUFACTURER. PLANTING MIXTURE SHALL BE FREE FROM STICKS, STONES, SOD CLODS, OR OTHER MATERIAL WHICH MIGHT LEAVE POCKETS AROUND THE ROOTS.
2. TOPSOIL
- 2.1. TOPSOIL SHALL BE FERTILE, FRIABLE, SANDY CLAY LOAM WITHOUT ADMIXTURE OF SUBSOIL. TOPSOIL IS TO BE FREE OF GLASS, STONES GREATER THAN ONE (1) INCH IN ANY DIMENSION, WEEDS, UNDESIRABLE GRASSES AND OTHER EXTRANEOUS MATERIALS. TOPSOIL SHALL HAVE THE FOLLOWING RANGE OF VALUES:

pH	5.0 TO 7.5
SOLUBLE SALTS	500 PPM MAX
ORGANIC CONTENT	5% TO 30%
SILT CONTENT	35% TO 50%
CLAY CONTENT	5% TO 10%
DELETERIOUS MAT	5% MAX
*ROCK, GRAVEL, STONE, STICKS, ROOTS, SOD, ETC.	
- 2.2. TOPSOIL IS TO BE FINAL SCREENED THRU A 5/8" MAXIMUM MESH SCREEN PRIOR TO DELIVERY TO THE PROJECT SITE. ENGINEER SHALL REVIEW SOURCE AND FINAL SCREEN RESULTS PRIOR TO DELIVERY OF TOPSOIL. CONTRACTOR SHALL SUBMIT A CERTIFIED ANALYSIS OF THE TOPSOIL FROM EACH SOURCE TO THE ENGINEER. TOPSOIL SHALL BE PLACED IN 4-INCH MINIMUM THICKNESS THROUGHOUT.
3. SAND FOR PLANTING MIXTURE SHALL BE CLEAN, MEDIUM-COARSE, UNGRADED SAND CONFORMING TO ASTM C3 FOR FINE AGGREGATES.
4. COMPOST SHALL BE COMPOSTED PINE BARK FIBERS OR OTHER HIGH-LIGNIN BARK FROM SPRUCE, FIR, OR OTHER CONIFERS.



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VE TEAM INFORMATION	
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VE PROJECT NUMBER:	WAB2004.01

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HEET TITLE

LANDSCAPE DETAILS 3

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SHEET NUMBER

L-503

