

EXISTING INTERIOR
TREE TO REMAIN

#1362 I STØRY COMMERCIAL BUILDING

EXISTING PERIMETER TREE TO REMAIN

EXISTING PERIMETER

TREE TO REMAIN

TREE TO REMAIN /

PROPOSED 15 FT CORNER —

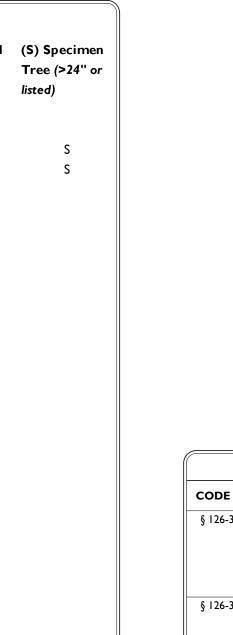
WALTON BOULEVARD

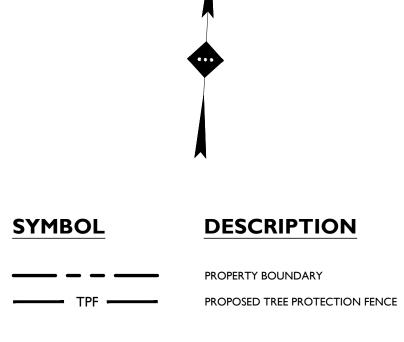
(RCOC JURISDICTION)

VARIABLE WIDTH PUBLIC RIGHT OF WAY

ASPHALT

CLEARANCE (TYPICAL)





TREE MITIGATION REQUIREMENTS									
CODE SECTION	REQUIRED	PROPOSED							
§ 126-327(2)	MINIMUM PRESERVATION PERCENTAGE:	9 REGULATED TREES TO							
	40% PRESERVATION OF REGULATED TREES	BE PRESERVED (75%)							
	12 REGULATED TREES								
	12 TREES X 0.40 = 5 REGULATED TREES TO BE PRESERVED								
§ 126-397	REGULATED TREE REPLACEMENT:	3 TREES							
	1:1								
	3 TREES REMOVED = 3 TREES REQUIRED								
§ 126-397(3)	SPECIMEN TREE REPLACEMENT:	8" DBH (4 TREES @ 2" EACH)							
	50% OF TOTAL DBH TO BE REPLACED								
	(20" TOTAL DBH)X(0.50)=10" DBH								
	I SPECIMEN TREE PRESERVED=2" CREDIT								
	(10" DBH)-(2" CREDIT)=8" DBH REQUIRED								

	DSCAPE AND BUFFER REQU	JIKLIALI 3
CODE SECTION	REQUIRED	PROPOSED
§ 138-12.300	BUFFER REQUIREMENTS: B-2 TO R-2	
	BUFFER WIDTH W/O 6 FT WALL: <b>25 FT</b>	25.0 FT
	DECIDUOUS TREES PER 100 LF: 2.5 EA	
	(119 LF)/(100) = 1.19	
	(1.19 * 2.5) = 3 TREES REQUIRED	3 EXISTING TREES
	ORNAMENTAL TREES PER 100 LF: 1.5 EA	
	(1.19 * 1.5) = 2 TREES REQUIRED	2 EXISTING TREES
	EVERGREEN TREES PER 100 LF: 5 EA	
	(1.19 * 5) = 6 TREES REQUIRED	6 PROPOSED TREES
	SHRUBS PER 100 LF: 8 EA	
	(1.19 * 8) = 10 SHRUBS REQUIRED	10 EXISTING SHRUBS
§ 138-12.301(A)(1)	INTERIOR LANDSCAPING:	
	5% OF PARKING LOT AREA	
	$(15,530 \text{ SF}) \times (0.05) = 777 \text{ SF}$	1,272 SF
	I TREE PER 150 SF	
	(777 SF / I50 SF) = <b>5 TREES</b>	5 TREES (I EXISTING
§ 138-12.301(A)(2)	TERMINAL ISLANDS:	
	MIN. 144 SF, 18 FT LONG	
	I TREE PER ISLAND	PROVIDED
§ 138-12.301(A)(3)	INTERIOR ISLANDS:	
	MIN. 160 SF, 8 FT WIDTH	
	I TREE PER ISLAND	PROVIDED
§ 138-12.301(B)(1)	PERIMETER LANDSCAPING:	
	I DECIDUOUS TREE PER 25 LF	
	(18.5 LF /25) = <b>I TREE</b>	I EXISTING TREE
	I ORNAMENTAL TREE PER 35 LF	
	(18.5 LF /35) = <b>I TREE</b>	I EXISTING TREE
§ 138-12.301(B)(2)	PARKING LOT WITHIN 30 FT OF ROW:	
	CONTINUOUS SHRUB HEDGE 30" O.C.	PROVIDED
	RIGHT-OF-WAY LANDSCAPING:	
§ 138-12.304(A)(1)	I DECIDUOUS TREE PER 35 LF	
	(I20 LF / 35 LF)= <b>4 TREES</b>	4 TREES (I EXISTING
§ 138-12.304(B)	I ORNAMENTAL TREE PER 60 LF	
	(120 LF / 60 LF) = <b>2 TREES</b>	2 PROPOSED TREES

nclude Road and Pathway Sight istance Lines per the attached City

PROPOSED PLANT SCHEDULE										
DECIDUOUS TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	SPACING			
(+)	GIN	6	GINKGO BILOBA `AUTUMN GOLD`	AUTUMN GOLD MAIDENHAIR TREE	2.5" - 3" CAL	B&B	AS SHOWN			
ORNAMENTAL TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	SPACING			
	QUE	4	malus X 'Indian Summer'	INDIAN SUMMER CRABAPPLE	2.5" - 3" CAL	B&B	AS SHOWN			
	CER	2	CERCIS CANADENSIS	EASTERN REDBUD	2.5" - 3" CAL	B&B	AS SHOWN			
EVERGREEN TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	SPACING			
+	THU	12	THUJA X `GREEN GIANT`	GREEN GIANT ARBORVITAE	8'-10' (2" DBH MINIMUM FOR REPLACEMENT TREES)	B&B	AS SHOWN			
EVERGREEN SHRUBS	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	SPACING			
$\otimes$	ILE	8	ILEX CRENATA 'COMPACTA'	DWARF JAPANESE HOLLY	24" - 30"	B&B	AS SHOWN			
$\odot$	ILEX	16	ILEX GLABRA 'SHAMROCK'	SHAMROCK INKBERRY HOLLY	24" - 30"	РОТ	AS SHOWN			

NOTE: IF ANY DISCREPANCIES OCCUR BETWEEN AMOUNTS SHOWN ON THE LANDSCAPE PLAN AND WITHIN THE PLANT LIST, THE PLAN SHALL DICTATE.

2 (40" dbh)

I (20" dbh)

I (20" dbh)

## **IRRIGATION NOTES:**

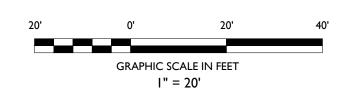
- I. IRRIGATION CONTRACTOR TO PROVIDE A DESIGN FOR AN IRRIGATION SYSTEM SEPARATING PLANTING BEDS FROM LAWN AREA. PRIOR TO CONSTRUCTION, DESIGN IS TO BE SUBMITTED TO THE PROJECT LANDSCAPE DESIGNER FOR REVIEW AND APPROVAL. WHERE POSSIBLE, DRIP IRRIGATION AND OTHER WATER CONSERVATION TECHNIQUES SUCH AS RAIN SENSORS SHALL BE IMPLEMENTED. CONTRACTOR TO VERIFY MAXIMUM ON SITE DYNAMIC WATER PRESSURE AVAILABLE MEASURED IN PSI. PRESSURE REDUCING DEVICES OR BOOSTER PUMPS SHALL BE PROVIDED TO MEET SYSTEM PRESSURE REQUIREMENTS. DESIGN TO SHOW ALL VALVES, PIPING, HEADS, BACKFLOW PREVENTION, METERS, CONTROLLERS, AND SLEEVES WITHIN HARDSCAPE AREAS.
- 2. ALL LANDSCAPE AREAS MUST BE IRRIGATED. WATERLING WILL ONLY OCCUR
- BETWEEN THE HOURS OF 12:00 AM AND 5:00 AM. 3. IRRIGATION OVERSPRAY SHALL NOT BE BROADCAST ONTO CITY PATHWAYS

## MAINTENANCE NOTES:

- I. LANDSCAPING SHALL BE KEPT IN A NEAT, ORDERLY AND HEALTHY GROWING CONDITION, FREE FROM DEBRIS AND REFUSE.
- 2. PRUNING SHALL BE MINIMAL AT THE TIME OF INSTALLATION, ONLY TO REMOVE DEAD OR DISEASED BRANCHES. SUBSEQUENT PRUNING SHALL ASSURE PROPER
- MATURATION OF PLANTS TO ACHIEVE THEIR APPROVED PURPOSE. 3. ALL DEAD, DAMAGED, OR DISEASED PLANT MATERIAL SHALL BE REMOVED IMMEDIATELY AND REPLACED WITHIN SIX (6) MONTHS AFTER IT DIES OR IN THE NEXT PLANTING SEASON, WHICHEVER OCCURS FIRST. FOR PURPOSES OF THIS SECTION, THE PLANTING SEASON FOR DECIDUOUS PLANTS SHALL BE BETWEEN MARCH I AND JUNE I AND FROM OCTOBER I UNTIL THE PREPARED SOIL BECOMES FROZEN. THE PLANTING SEASON FOR EVERGREEN PLANTS SHALL BE BETWEEN MARCH I AND JUNE I. PLANT MATERIAL INSTALLED TO REPLACE DEAD OR DISEASED MATERIAL SHALL BE AS CLOSE AS PRACTICAL TO THE SIZE OF THE MATERIAL IT IS INTENDED TO REPLACE. THE CITY MAY NOTIFY PROPERTY
- OWNERS OF THE NEED TO REPLACE DEAD, DAMAGED, OR DISEASED MATERIAL. 4. THE APPROVED LANDSCAPE PLAN SHALL BE CONSIDERED A PERMANENT RECORD AND INTEGRAL PART OF THE SITE PLAN APPROVAL. UNLESS OTHERWISE APPROVED IN ACCORDANCE WITH THE AFOREMENTIONED PROCEDURES, ANY REVISIONS TO OR REMOVAL OF PLANT MATERIALS, OR NON-COMPLIANCE WITH THE MAINTENANCE REQUIREMENTS OF THIS SECTION 138-12.109 WILL PLACE THE PARCEL IN NON-CONFORMITY WITH THE APPROVED LANDSCAPE PLAN AND BE A
- VIOLATION OF THIS ORDINANCE. 5. IF PROTECTED TREES ARE DAMAGED, A FINE SHALL BE ISSUED ON AN INCH-BY-INCH BASIS AT A MONETARY RATE AS DEFINED BY THE FORESTRY DEPARTMENT.

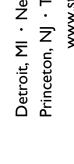
LAYER OF MULCH .

- THE CONTRACTOR SHALL RESTORE ALL DISTURBED GRASS AND LANDSCAPED AREAS TO MATCH EXISTING CONDITIONS UNLESS INDICATED OTHERWISE
- WITHIN THE PLAN SET. 2. THE CONTRACTOR SHALL RESTORE ALL DISTURBED LAWN AREAS WITH A
- MINIMUM 4 INCH LAYER OF TOPSOIL AND SEED. 3. THE CONTRACTOR SHALL RESTORE MULCH AREAS WITH A MINIMUM 3 INCH
- THE MAXIMUM SLOPE ALLOWABLE IN LANDSCAPE RESTORATION AREAS SHALL BE 3 FEET HORIZONTAL TO 1 FOOT VERTICAL (3:1 SLOPE) UNLESS INDICATED OTHERWISE WITHIN THE PLAN SET. THE CONTRACTOR IS REQUIRED TO LOCATE ALL SPRINKLER HEADS IN AREA OF
- LANDSCAPING DISTURBANCE PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL RELOCATE SPRINKLER HEADS AND LINES IN ACCORDANCE WITH OWNER'S DIRECTION WITHIN AREAS OF DISTURBANCE.
- 6. THE CONTRACTOR SHALL ENSURE THAT ALL DISTURBED LANDSCAPED AREAS ARE GRADED TO MEET FLUSH AT THE ELEVATION OF WALKWAYS AND TOP OF CURB ELEVATIONS EXCEPT UNLESS INDICATED OTHERWISE WITHIN THE PLAN SET. NO ABRUPT CHANGES IN GRADE ARE PERMITTED IN DISTURBED LANDSCAPING AREAS.
- PRIOR APPROVAL IS REQUIRED TO PLANT ANY TREE OR SHRUB ON THE PUBLIC RIGHT-OF-WAY. ALL TREES AND SHRUBS MUST BE PLANTED AT LEAST 10' FROM THE EDGE OF THE PUBLIC ROAD. (TREES MUST BE PLANTED AT LEAST 15' AWAY FROM CURB OR ROAD EDGE WHÈRE THE SPEED LIMIT IS MORE THAN 35 MPH.) SHADE TREES AND SHRUBS MUST BE PLANTED AT LEAST 5' FROM THE EDGE OF THE PUBLIC WALKWAY. EVERGREEN AND ORNAMENTAL TREES MUST BE PLANTED AT LEAST 10' FROM THE EDGE OF THE PUBLIC WALKWAY. NO TREES OR SHRUBS MAY BE PLANTED WITHIN THE TRIANGULAR AREA FORMED AT THE INTERSECTION OF ANY STREET RIGHT-OF-WAY LINES AT A DISTANCE ALONG EACH LINE OF 25' FROM THEIR POINT OF INTERSECTION. NO TREES OR SHRUBS MAY BE PLANTED IN THE TRIANGULAR AREA FORMED AT THE INTERSECTION OF ANY DRIVEWAY WITH A PUBLIC WALKWAY AT A DISTANCE ALONG EACH LINE OF 15' FROM THEIR POINT OF INTERSECTION. ALL TREES AND SHRUBS MUST BE PLANTED AT LEAST 10' FROM ANY FIRE HYDRANT. SHADE AND EVERGREEN TREES MUST BE AT LEAST 15' AWAY FROM THE NEAREST OVERHEAD WIRE. TREES MUST BE PLANTED A MINIMUM OF 5' FROM AN UNDERGROUND UTILITY, UNLESS THE CITY'S LANDSCAPE ARCHITECT REQUIRES A GREATER DISTANCE. PRIOR TO THE RELEASE OF THE PERFORMANCE BOND, THE CITY OF ROCHESTER HILLS FORESTRY UNIT NEEDS TO INSPECT ALL TREES, EXISTING OR PLANTED, TO IDENTIFY ANY THAT POSE A HAZARD TO THE SAFE USE OF THE PUBLIC RIGHT-OF-WAY. FORESTRY MAY REQUIRE THE DEVELOPER TO REMOVE, AND POSSIBLY REPLACE, ANY SUCH TREES. THE ABOVE REQUIREMENTS ARE INCORPORATED INTO THE
- 8. PRIOR TO THE RELEASE OF THE PERFORMANCE BOND, THE CITY OF ROCHESTER HILLS MUST INSPECT ALL LANDSCAPING PLANTINGS.



 7	05/26/2022	JRC / ECM	SUBMISSION FOR SITE PLAN APPROVAL
 9	02/09/2022	JRC / ECM	REVISED PER CITY SECOND SITE PLAN REVIEW
 22	12/28/2021	JRC / ECM	REVISED PER CITY SITE PLAN REVIEW
4	09/08/2021	RAC / ECM	SUBMISSION FOR SITE PLAN APPROVAL
 ٣	08/20/2021	RAC	REVISED PER FIRE DEPARTMENT COMMENTS
 2	08/02/2021	ECM	REVISED PER CITY COMMENTS
 _	07/08/2021	JRC	SUBMISSION FOR PRE-APPLICATION MEETING
ISSUE	DATE	ВҮ	DESCRIPTION

NOT APPROVED FOR CONSTRUCTION









engineering & design

CITY FILE #21-030 SECTION #9

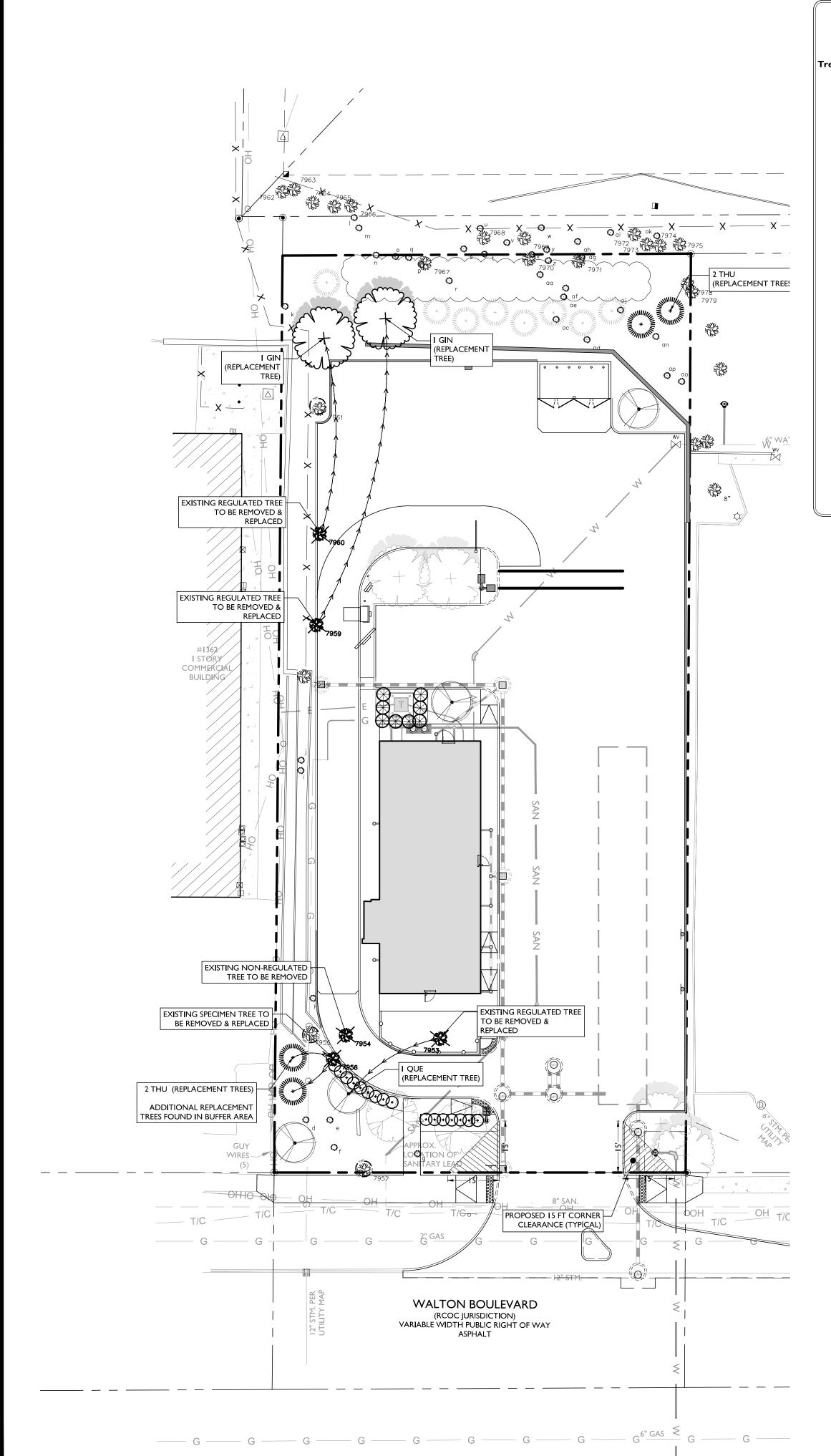
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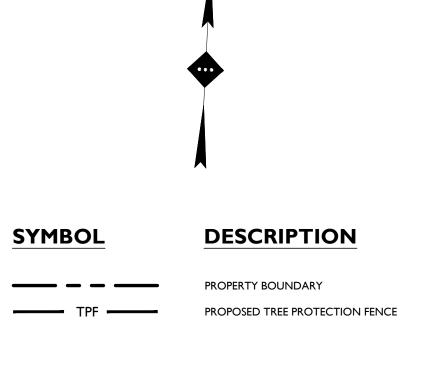
I" = 20' PROJECT ID: DET-200412

LANDSCAPING PLAN

DRAWING:







TREE MITIGATION REQUIREMENTS								
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§ 126-327(2)	MINIMUM PRESERVATION PERCENTAGE:	9 REGULATED TREES TO						
	40% PRESERVATION OF REGULATED TREES	BE PRESERVED (75%)						
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LANDSCAPE AND BUFFER REQUIREMENTS							
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§ 138-12.301(B)(2)	PARKING LOT WITHIN 30 FT OF ROW:						
	CONTINUOUS SHRUB HEDGE 30" O.C.	PROVIDED					
	RIGHT-OF-WAY LANDSCAPING:						
§ 138-12.304(A)(1)	I DECIDUOUS TREE PER 35 LF						
	(I20 LF / 35 LF)= <b>4 TREES</b>	4 TREES (I EXISTING					
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	(120 LF / 60 LF) = <b>2 TREES</b>	2 PROPOSED TREES					

PROPOSED PLANT SCHEDULE										
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NOTE: IF ANY DISCREPANCIES OCCUR BETWEEN AMOUNTS SHOWN ON THE LANDSCAPE PLAN AND WITHIN THE PLANT LIST, THE PLAN SHALL DICTATE.

I (20" dbh)

## **IRRIGATION NOTES:**

**REMAINING:** 

- I. IRRIGATION CONTRACTOR TO PROVIDE A DESIGN FOR AN IRRIGATION SYSTEM SEPARATING PLANTING BEDS FROM LAWN AREA. PRIOR TO CONSTRUCTION, DESIGN IS TO BE SUBMITTED TO THE PROJECT LANDSCAPE DESIGNER FOR REVIEW AND APPROVAL. WHERE POSSIBLE, DRIP IRRIGATION AND OTHER WATER CONSERVATION TECHNIQUES SUCH AS RAIN SENSORS SHALL BE IMPLEMENTED. CONTRACTOR TO VERIFY MAXIMUM ON SITE DYNAMIC WATER PRESSURE AVAILABLE MEASURED IN PSI. PRESSURE REDUCING DEVICES OR BOOSTER PUMPS SHALL BE PROVIDED TO MEET SYSTEM PRESSURE REQUIREMENTS. DESIGN TO SHOW ALL VALVES, PIPING, HEADS, BACKFLOW PREVENTION, METERS, CONTROLLERS, AND SLEEVES WITHIN HARDSCAPE AREAS.
- 2. ALL LANDSCAPE AREAS MUST BE IRRIGATED. WATERLING WILL ONLY OCCUR BETWEEN THE HOURS OF 12:00 AM AND 5:00 AM.
- 3. IRRIGATION OVERSPRAY SHALL NOT BE BROADCAST ONTO CITY PATHWAYS

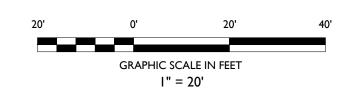
## MAINTENANCE NOTES:

- I. LANDSCAPING SHALL BE KEPT IN A NEAT, ORDERLY AND HEALTHY GROWING CONDITION, FREE FROM DEBRIS AND REFUSE.
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- MATURATION OF PLANTS TO ACHIEVE THEIR APPROVED PURPOSE. 3. ALL DEAD, DAMAGED, OR DISEASED PLANT MATERIAL SHALL BE REMOVED IMMEDIATELY AND REPLACED WITHIN SIX (6) MONTHS AFTER IT DIES OR IN THE NEXT PLANTING SEASON, WHICHEVER OCCURS FIRST. FOR PURPOSES OF THIS SECTION, THE PLANTING SEASON FOR DECIDUOUS PLANTS SHALL BE BETWEEN MARCH I AND IUNE I AND FROM OCTOBER I UNTIL THE PREPARED SOIL BECOMES FROZEN. THE PLANTING SEASON FOR EVERGREEN PLANTS SHALL BE BETWEEN MARCH I AND JUNE I. PLANT MATERIAL INSTALLED TO REPLACE DEAD OR DISEASED MATERIAL SHALL BE AS CLOSE AS PRACTICAL TO THE SIZE OF THE MATERIAL IT IS INTENDED TO REPLACE. THE CITY MAY NOTIFY PROPERTY
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- 5. IF PROTECTED TREES ARE DAMAGED, A FINE SHALL BE ISSUED ON AN INCH-BY-INCH BASIS AT A MONETARY RATE AS DEFINED BY THE FORESTRY DEPARTMENT.

- THE CONTRACTOR SHALL RESTORE ALL DISTURBED GRASS AND LANDSCAPED AREAS TO MATCH EXISTING CONDITIONS UNLESS INDICATED OTHERWISE
- WITHIN THE PLAN SET. 2. THE CONTRACTOR SHALL RESTORE ALL DISTURBED LAWN AREAS WITH A MINIMUM 4 INCH LAYER OF TOPSOIL AND SEED.

3 FEET HORIZONTAL TO 1 FOOT VERTICAL (3:1 SLOPE) UNLESS INDICATED

- 3. THE CONTRACTOR SHALL RESTORE MULCH AREAS WITH A MINIMUM 3 INCH LAYER OF MULCH. THE MAXIMUM SLOPE ALLOWABLE IN LANDSCAPE RESTORATION AREAS SHALL BE
- OTHERWISE WITHIN THE PLAN SET. THE CONTRACTOR IS REQUIRED TO LOCATE ALL SPRINKLER HEADS IN AREA OF LANDSCAPING DISTURBANCE PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL RELOCATE SPRINKLER HEADS AND LINES IN ACCORDANCE WITH OWNER'S
- DIRECTION WITHIN AREAS OF DISTURBANCE.
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- 8. PRIOR TO THE RELEASE OF THE PERFORMANCE BOND, THE CITY OF ROCHESTER HILLS MUST INSPECT ALL LANDSCAPING PLANTINGS.



	JRC / ECM SUBMISSION FOR SITE PLAN APPROVAL	JRC / ECM REVISED PER CITY SECOND SITE PLAN REVIEW	JRC / ECM REVISED PER CITY SITE PLAN REVIEW	RAC / ECM SUBMISSION FOR SITE PLAN APPROVAL	RAC REVISED PER FIRE DEPARTMENT COMMENTS	ECM REVISED PER CITY COMMENTS	JRC SUBMISSION FOR PRE-APPLICATION MEETING	BY DESCRIPTION
	JRC	JRC	JRC	RAC	2	ш	_	
	05/26/2022	02/09/2022	12/28/2021	09/08/2021	08/20/2021	08/02/2021	07/08/2021	DATE
	7	9	Ŋ	4	٣	2	_	ISSUE

NOT APPROVED FOR CONSTRUCTION









CITY FILE #21-030 SECTION #9

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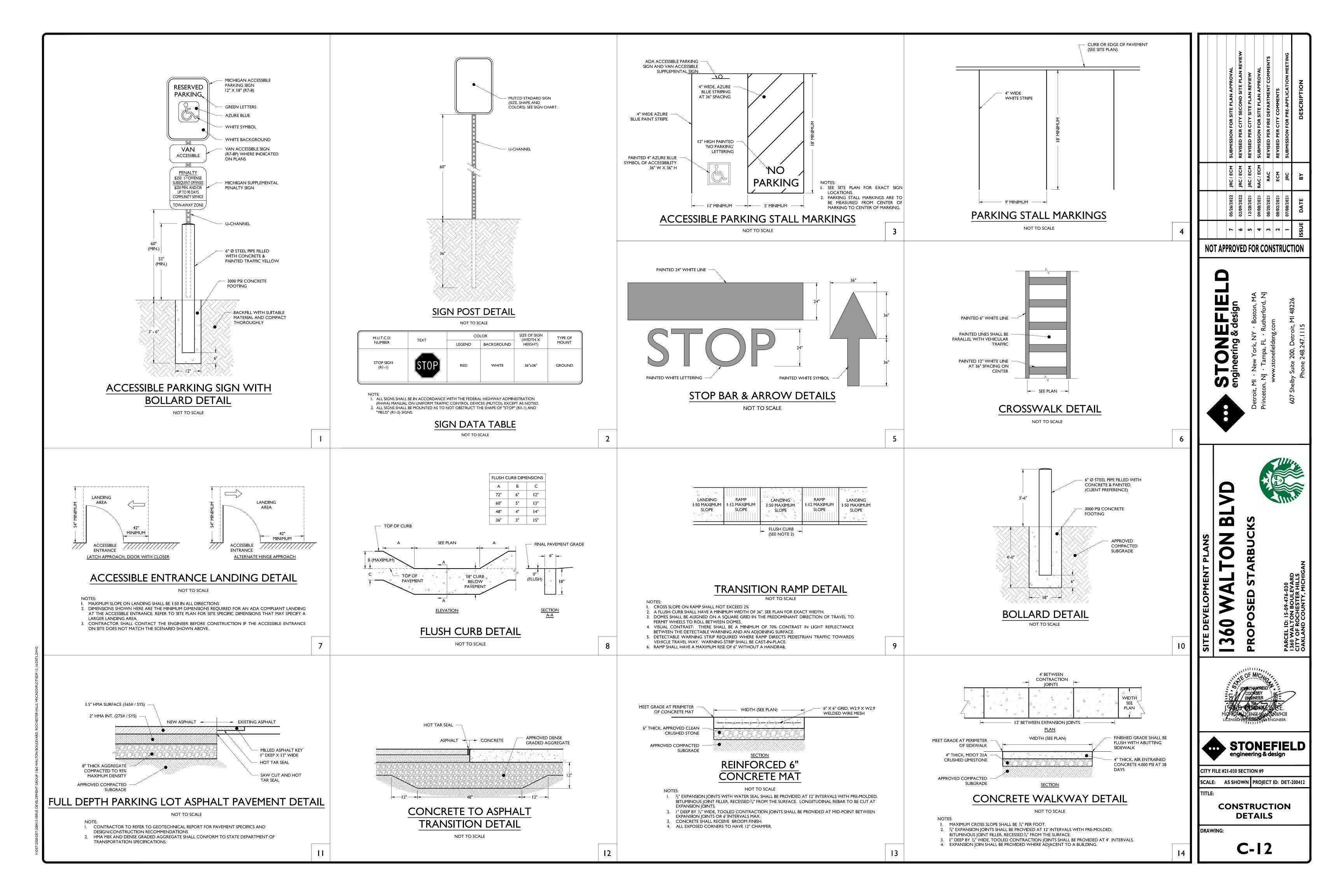
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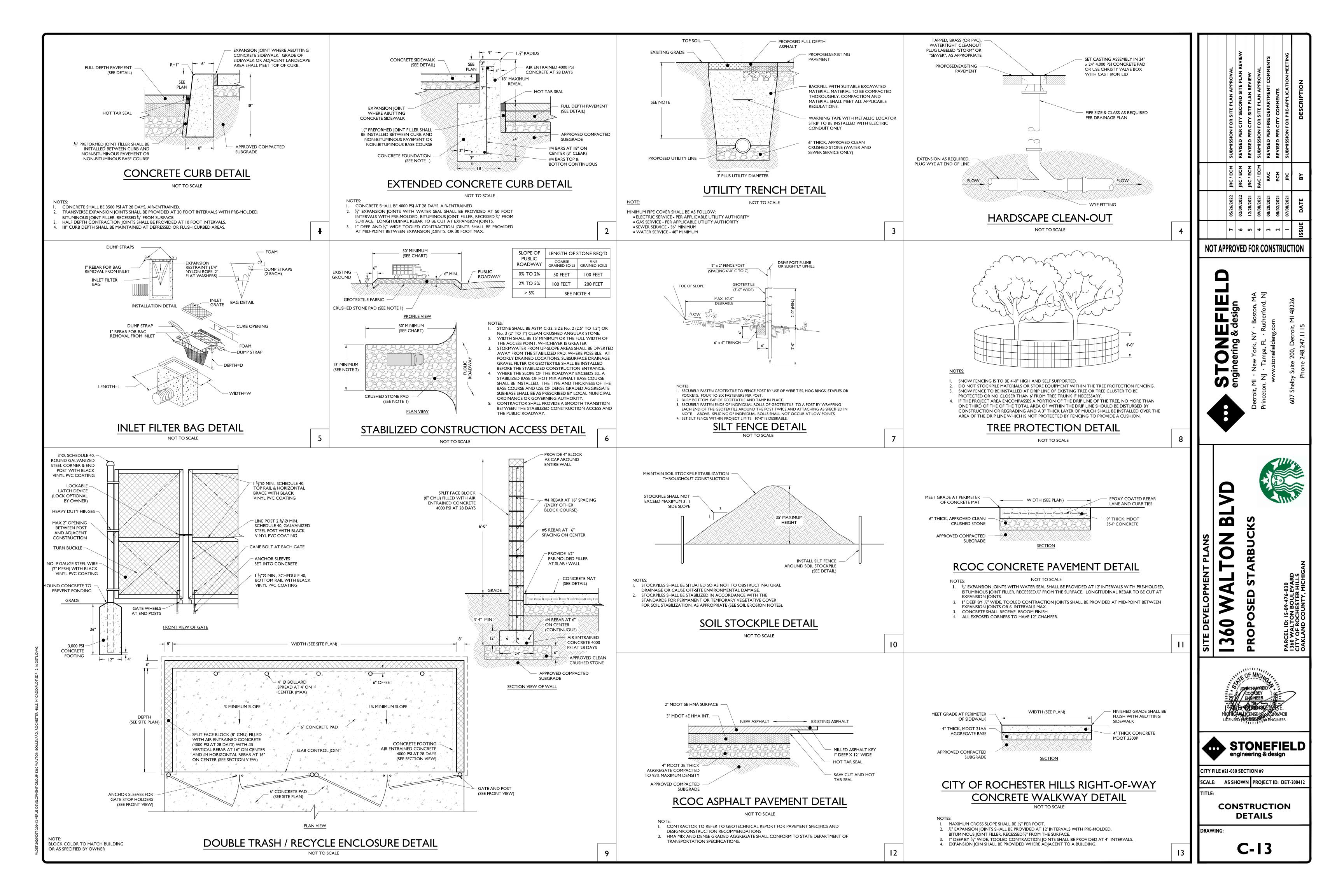
I" = 20' PROJECT ID: DET-200412

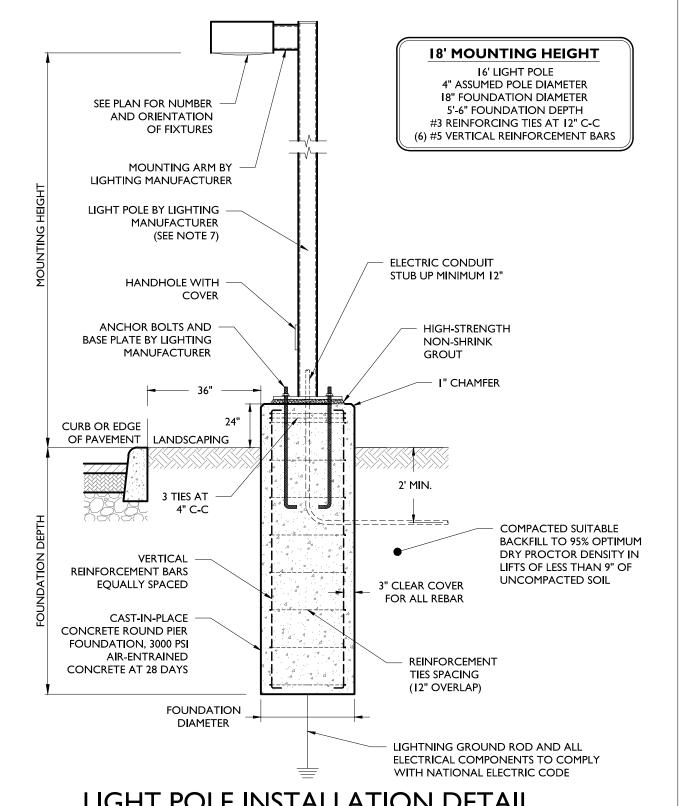
TREE REPLACEMENT

DRAWING:

PLAN







# LIGHT POLE INSTALLATION DETAIL

NOT TO SCALE NOTES: I. MINIMUM SOIL BEARING PRESSURE OF 1500 PSF, SOIL FRICTION ANGLE OF 30 DEGREES, AND SOIL DRY UNIT WEIGHT OF 120 PCF SHALL BE CONFIRMED IN THE FIELD BY A QUALIFIED PROFESSIONAL.

2. CAST-IN-PLACE CONCRETE SHALL BE CONSOLIDATED USING VIBRATOR. ALL REBAR TO BE NEW GRADE 60 STEEL.

Mirada Medium Wall Sconce (XWM)

**QUICK LINKS** 

features over-voltage, under-voltage, short-

circuit and over temperature protection.

Standard Universal Voltage (120-277 Vac)

Input 50/60 Hz or optional High Voltage

Operating temperature: -40°C to +50°C

Input power stays constant over life.

meets a minimum Category C Low

operation (per ANSI/IEEE C62.41.2).

High-efficacy LEDs mounted to metal-core

circuit board to maximize heat dissipation

Components are fully encased in potting

complies with FCC standards. Driver and

key electronic components can easily be

Optional integral emergency battery pack

the LED system, ensuring code compliance

A test switch/indicator button is installed

on the housing for ease of maintenance.

The fixture delivers 1500 lumens during

Integral passive infrared Bluetooth<sup>T</sup>

motion and photocell sensor options.

Android configuration app. Updates and

modifications to the control strategy are

easily implemented via an intuitive app.

• LSI's AirLink<sup>™</sup> Blue lighting control system

is a simple feature rich wireless Bluetooth

LIGHT FIXTURES 'E & F' SPECIFICATIONS

NOT TO SCALE

Fixtures operate independently and

can be commissioned via an iOS or

vides 90-minutes of constant power to

material for moisture resistance. Driver

accessed via hinged door.

emergency mode.

Controls

3) 372-3200 • ©2020 LSI Industries Inc. All Rights Reserved. Specifications subject to change without notice.

Optional 10kV surge protection device

Custom lumen and wattage packages

• 0-10V dimming (10% - 100%) standard

L80 Calculated Life: >100k Hours

Total harmonic distortion: <20%

(-40°F to +122°F).

Power factor: >.90

Ordering Guide Performance Photometrics Dimensions

sensor module provides wireless control of

grouped fixtures based on motion sensors.

daylight or a fully customizable schedule.

Universal wall mounting plate easily mounts

directly to 4" octagonal or square junction

underneath the housing and provide quick & easy access to the electrical compartment

Optional terminal block accepts up to 12 ga

• LSI LED Fixtures carry a 5-year warranty.

Meets Buy American Act requirements

IP65 rated luminaire per IEC 60598.

IK08 rated luminiare per IEC 66262

3G rated for ANSI C136.31 high vibration

applications when pole mounted (using

optional XPMA bracket) or wall mounted

mechanical impact code
• DesignLights Consortium\* (DLC) qualified

product. Not all versions of this product

org/QPL to confirm which versions are

may be DLC qualified. Please check the DLC

Qualified Products List at www.designlights.

Page 1/5 Rev. 08/20/21

IDA compliant; with 3000K or lower color

• Title 24 Compliant; see local ordinance for

Listed to UL 1598 and UL 8750.

temperature selection.

Suitable for wet Locations.

• 1 Year warranty on Battery Back-up option.

· 2 fasteners secure the hinged door

- PRE-CAST PIERS ACCEPTABLE UPON WRITTEN APPROVAL OF SHOP DRAWING BY ENGINEER. 5. CONCRETE TO BE INSTALLED A MINIMUM OF 7 DAYS PRIOR TO INSTALLING LIGHT POLE. POURED CONCRETE MIX REOUIRED TO OBTAIN 80% OF DESIGN STRENGTH PRIOR TO INSTALLING LIGHT POLE.
- CONCRETE SHALL HAVE A MAXIMUM SLUMP OF 4" (WITHIN I" TOLERANCE).
- 7. POLE SHALL BE RATED FOR 10 MPH HIGHER THAN MAXIMUM WIND SPEED 33FT ABOVE GROUND FOR THE AREA BASED
- 8. POUR TO BE TERMINATED AT A FORM.

Outdoor LED Wall Sconce

23 - 102

107 - 140

**FEATURES & SPECIFICATIONS** 

Rugged die-cast aluminum housing

access door located underneath.

unit. Hinged die-cast aluminum wiring

Galvanized-steel universal wall mount

bracket comes standard with hinging

Optional pole-mounting bracket (XPMA)

permits mounting to standard poles.

Fixtures are finished with LSI's DuraGrip\*

polyester powder coat finishing process.

The DuraGrip finish withstands extreme

weather changes without cracking or

State-of-the-Art one piece silicone optic

sheet delivers industry leading optical

IP65 rated sealed optical chamber in 1

exceptional coverage and uniformity

Available in 5000K, 4000K and 3000K

with Peak intensity at 610nm.

in Types 2, 3, and Forward Throw (FT)

Silicone optical material does not vellow or

crack with age and provides a typical light

color temperatures per ANSI C78.377. Also

Available in Phosphor Converted Amber

High-performance programmable driver

LSI Industries Inc. 10000 Alliance Rd. Cincinnati, OH 45242 • www.lsicorp.com

control with an integrated gasket to provide

• Proprietary silicone refractor optics provide

peeling. Other standard LSI finishes

available. Consult factory.

transmittance of 93%.

Zero uplight.

Electrical

Minimum CRI of 70.

Optical System

Shipping weight: 30 lbs in carton.

mechanism to easily access the junction

box wire connections without removing the

contains factory prewired driver and optical

Lumen Range

Wattage Range

Construction

9. WORK SHALL CONFORM TO ACI BEST PRACTICES FOR APPROPRIATE TEMPERATURE AND WEATHER CONDITIONS. 10. CONTRACTOR TO TEMPORARILY SUPPORT ADJACENT SOIL AND STRUCTURES DURING EXCAVATION IF REQUIRED.

LIGHT POLE INSTALLATION DETAIL NOT TO SCALE I. MINIMUM SOIL BEARING PRESSURE OF 1500 PSF, SOIL FRICTION ANGLE OF 30 DEGREES, AND SOIL DRY UNIT WEIGHT OF 120 PCF SHALL BE CONFIRMED IN THE FIELD BY A QUALIFIED PROFESSIONAL. CAST-IN-PLACE CONCRETE SHALL BE CONSOLIDATED USING VIBRATOR. ALL REBAR TO BE NEW GRADE 60 STEEL. PRE-CAST PIERS ACCEPTABLE UPON WRITTEN APPROVAL OF SHOP DRAWING BY ENGINEER. CONCRETE TO BE INSTALLED A MINIMUM OF 7 DAYS PRIOR TO INSTALLING LIGHT POLE. POURED CONCRETE MIX REQUIRED TO OBTAIN 80% OF DESIGN STRENGTH PRIOR TO INSTALLING LIGHT POLE. CONCRETE SHALL HAVE A MAXIMUM SLUMP OF 4" (WITHIN I" TOLERANCE). POLE SHALL BE RATED FOR 10 MPH HIGHER THAN MAXIMUM WIND SPEED 33FT ABOVE GROUND FOR THE AREA BASED

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Standard Details:

FOUNDATION

DIAMETER

SEE PLAN FOR NUMBER

AND ORIENTATION

LIGHTING MANUFACTURER

LIGHT POLE BY LIGHTING

OF FIXTURES

MOUNTING ARM BY

MANUFACTURER

HANDHOLE WITH -

ANCHOR BOLTS AND

MANUFACTURER

3 TIES AT

VERTICAL

REINFORCEMENT BARS

CONCRETE ROUND PIER

FOUNDATION, 3000 PSI

CONCRETE AT 28 DAYS

8. POUR TO BE TERMINATED AT A FORM.

**EQUALLY SPACED** 

CAST-IN-PLACE -

AIR-ENTRAINED

4" C-C

BASE PLATE BY LIGHTING

OF PAVEMENT LANDSCAPING

CURB OR EDGE

(SEE NOTE 7)

PRV / PRV-XL Prevail LED Area / Site Luminaire Interactive Menu Ordering Information page 2 Mounting Details page 3 • Optical Configurations page 3 Product Specifications page 3 Energy and Performance Data page 4 Control Options page 5 Quick Facts • Lumen packages range from 7,100 - 48,600 lumens WaveLinx (50W - 350W) Enlighted Replaces 70W up to 1,000W HID equivalents Efficacies up to 148 lumens per watt Energy and maintenance savings up to 85% versus HID solutions • Standard universal quick mount arm with universal drill pattern **OOOPER** PS500001EN page 1 April 12, 2021 3:23 PM

## LIGHT FIXTURES 'A-C' SPECIFICATIONS

1. Maximum grade of 8.33% along pathway

2. 1% cross slope (i.e. super elevation) for

drainage off and away from pathway and

graded shoulders (2% maximum cross-slope).

60' minimum center line radii for pathway

4. Provide a minimum of 3' horizontal clearance

objects and the edge of pathway surface.

and 8' vertical clearance from all fixed

Relocation of existing objects (i.e. mail

boxes, signs, etc.) shall be considered

Pathway ramps shall be constructed in

Series and shall have a minimum clear

wherever new pavement matches existing

accordance with the City of Rochester Hills

standards and shall match the proposed

concrete through residential drives and

9 inch thick HMA or 8 inch thick concrete

9. Pathway asphalt shall be paid for as "Shared

Use Path, HMA" when part of public

10. Ramps and landings shall be 6 inch thick

ADA detectable warning plates shall be

products included ADA Solutions, Inc.,

Armor-Tile, ej, or approved equal.

preformed and brick red in color. Acceptable

6. A clean saw cut joint shall be provided

pavement (incidental work item).

7. Utility structures shall be adjusted in

8. Pathway shall be 6 inch thick HMA or

accordance with MDOT standard detail R-28

(less than 5% is recommended).

horizontal alignment.

incidental work items.

grade of the pathway.

improvement project.

concrete.

through commercial drives.

opening of 8' wide.

Standard Notes:

NOT TO SCALE



## LIGHT FIXTURE 'D' SPECIFICATIONS

**TOP VIEW** 

# **SPECIFICATIONS**

1. 4" FPT with 4" plain end adapters, single inlet

and triple outlet

2. Unit weight - w/cast iron covers: 376 lbs.; w/composite covers: 266 lbs. (For wet weight add 2,310 lbs.)

3. Maximum operating temperature 4. Capacities - Liquid: 277 gal.; @100 GPM - Grease: 1,895 lbs. @200 GPM - Grease: 1,196 lbs.

Solids: 69 gal.

5. This unit does not require flow control for 100 GPM applications. Built-in Flow control is provided for 200 GPM applications. For series installations, only install flow control on the first unit in the series if necessary.

For gravity drainage applications only. Do not use for pressure applications. 8. Cover placement allows full access to tank for proper maintenance. Ven't not required unless per local code. 10. Engineered inlet and outlet diffusers are

removable to inspect / clean piping.

11. Integral air relief / Anti-siphon /

Sampling access.

12. Adjustable cover adapters provide up to 4" of additional height.

13. Fixed outlet models (-FO) have inlet and outlet permanently welded at the factory in the straight-through (B) positions. 14. Flow rates are based on 2-minute drain time.

15. Safety Star®, access restrictor built into each cover adapter, prevents accidental entry to tanks (450 lb rating) **DIFFUSION FLOW TECHNOLOGY** The inlet diffuser reduces turbulence, creates laminar low and allows the entire tank volume to be utilized for efficient grease separation and minimal disturbance to existing grease and sediment layers The inlet diffuser can be attached to any of the

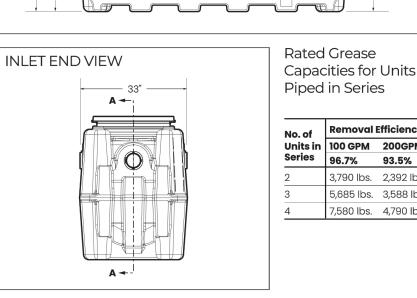
unit during operation. The outlet diffuser can easily be attached to any of the three outlets provided to ease job site piping layouts. **ENGINEER SPECIFICATION GUIDE** 

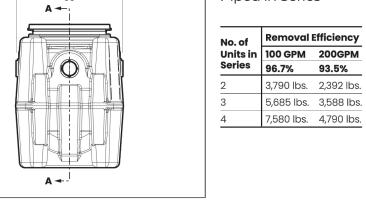
Schier Great Basin™ grease interceptor model # GB-250 shall be lifetime guaranteed and made in USA of seamless, rotationally-molded polyethylene Interceptor shall be furnished for above or below grade installation. Interceptor shall be certified to ASME A112.14.3 (Type D for 100 GPM, type C for 200 GPM) and CSA B481.1, with adjustable cover adapters, Safety Star® access restrictor built into each cover adapter, built-in flow control (for 200 GPM only) and three outlet options. Interceptor flov rate shall be 100 or 200 GPM. Interceptor grease capacity shall be 1,895 lbs. @ 100 GPM or 1,196 GPM @ 200 GPM. Cover shall provide water/ gas-tight seal and have minimum 16,000 lbs. load capacity

**CERTIFIED PERFORMANCE** Great Basin™ hydromechanical grease interceptors are third party performance-tested and listed by IAPMO to ASME #A112.14.3 and CSA B481.1 grease interceptor standards and greatly exceed requirements for arease separation and storage They are compliant to the Uniform Plumbing Code and the International Plumbing Code.

(optional) Safety Star® Access Pumpout Port Integral Air Relief / **SECTION A-A** Anti Siphon and Inspection Port -- ø 24-1/2" TYP --Static - Cover Adapters with up to 4" of Adjustability Inlet Diffuser Outlet Diffuser three inlets provided țo ease job site piping layouts. The integral air relief / anti-siphon at the outlet

water tight pickable







NOT TO SCALE

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CITY FILE #21-030 SECTION #9

SCALE: AS SHOWN PROJECT ID: DET-200412

TITLE: **CONSTRUCTION** 

DRAWING:

**C-14** 

**DETAILS** 

-1 1/2" HMA, 5E03 [PG 58-22 (Final Grade)] 92% to 96% of the Theoretical Maximum Density (TMD) -Apply bituminous bond tack coat SS-1H at an application rate of 0.10 gallons/sq.yd. or adjusted by the engineer Shoulder (Typ.) as conditions warrant -2 1/2" HMA, 4E03 [PG 58-22 (Final Grade)] 92% to 96% of the Theoretical Maximum Density (TMD) -4" (CIP) of 21AA aggregate base (98% Maximum Density) Typical 8' Pathway Section Apply Pramitol 25E —Compacted existing subgrade or equivalent (as (95% Maximum Density) approved by the engineer) in accordance with manufacturer's recommendations Minimum vertical clearance within the influence of the pathway 3' minimum horizontal clearance between edge of pathway and all fixed objects 1% cross slope for drainage — 8' Pathway off and away from pathway and graded shoulders. Cross-Graded slope shall not exceed 2%) Typical Pathway and Graded Shoulder Shoulder Drainage Profile

15' MOUNTING HEIGHT

13' LIGHT POLE

4" ASSUMED POLE DIAMETER 18" FOUNDATION DIAMETER

5'-6" FOUNDATION DEPTH

#3 REINFORCING TIES AT 12" C-C

(6) #5 VERTICAL REINFORCEMENT BARS

COMPACTED SUITABLE

BACKFILL TO 95% OPTIMUM

DRY PROCTOR DENSITY IN

LIFTS OF LESS THAN 9" OF

UNCOMPACTED SOIL

ELECTRIC CONDUIT

STUB UP MINIMUM 12"

HIGH-STRENGTH

NON-SHRINK

GROUT

2' MIN.

3" CLEAR COVER

FOR ALL REBAR

- REINFORCEMENT

TIES SPACING

(12" OVERLAP)

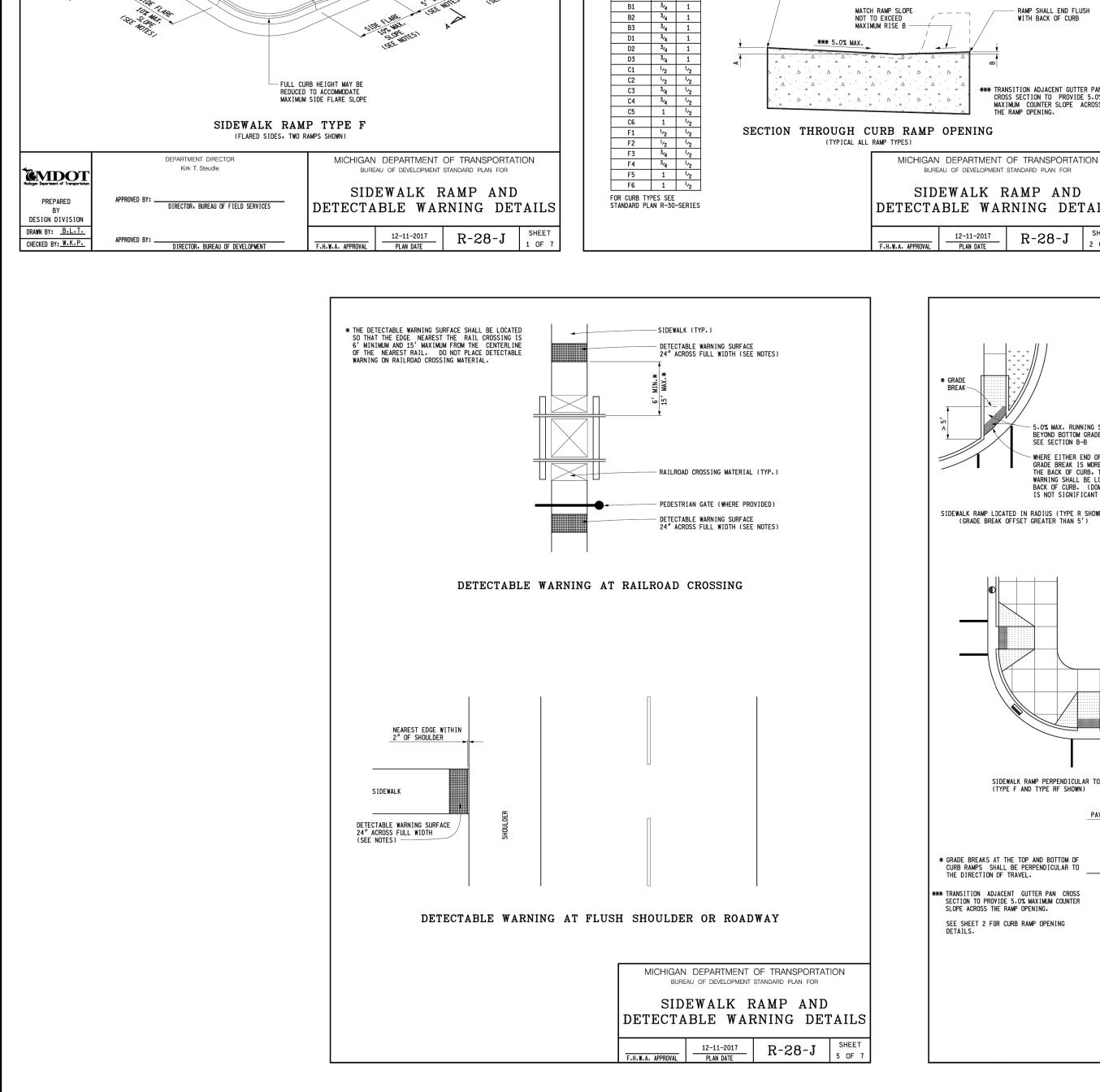
LIGHTNING GROUND ROD AND ALL

WITH NATIONAL ELECTRIC CODE

**ELECTRICAL COMPONENTS TO COMPLY** 

CITY OF ROCHESTER HILLS PATHWAY CONSTRUCTION DETAILS

**GB-250 GREASE INTERCEPTOR DETAIL** 



DETECTABLE WARNING SURFACE 24" ACROSS FULL WIDTH (SEE NOTES)

REINFORCEMENT AS IN

\* MAXIMUM LANDING SLOPE IS 2.0% IN EACH DIRECTION OF TRAVEL. LANDING MINIMUM DIMENSIONS 5' x 5'. SEE NOTES.

\*\* MAXIMUM RAMP CROSS SLOPE IS 2.0%. RUNNING SLOPE 5% - 7% (8.3% MAXIMUM). SEE NOTES.

"NON-WALKING" AREA

\* LANDING

RAMP AND LANDING SLAB THICKNESSES SHALL BE AS CALLED FOR ON THE PLANS

RAMP SHALL END FLUSH WITH BACK OF CURB

\*\*\*\* TRANSITION ADJACENT GUTTER PAN CROSS SECTION TO PROVIDE 5.0% MAXIMUM COUNTER SLOPE ACROSS THE RAMP OPENING.

SIDEWALK RAMP TYPE RF

(ROLLED / FLARED SIDES)

SECTION A-A

— PAVEMENT SHALL END FLUSH WITH THE GUTTER PAN

DETECTABLE WARNING SURFACE 24" ACROSS FULL WIDTH (SEE NOTES)

RAMP SLOPE 5% - 7% (8.3% MAXIMUM) SEE NOTES

\* MAXIMUM LANDING SLOPE IS 2.0% IN EACH DIRECTION OF TRAVEL. LANDING MINIMUM DIMENSIONS 5'  $\times$  5'. SEE NOTES.

\*\*\* MAXIMUM RAMP CROSS SLOPE IS 2.0%. RUNNING SLOPE 5% - 7% (8.3% MAXIMUM). SEE NOTES.

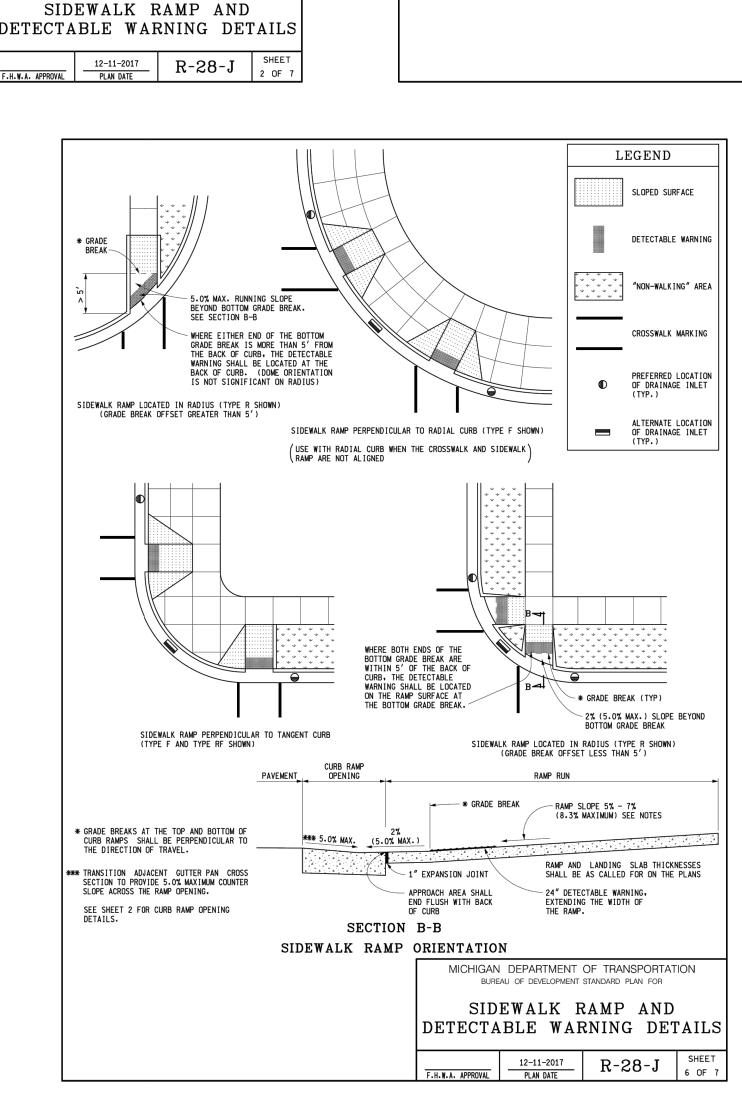
DETECTABLE WARNING SURFACE 24" ACROSS FULL WIDTH (SEE NOTES)

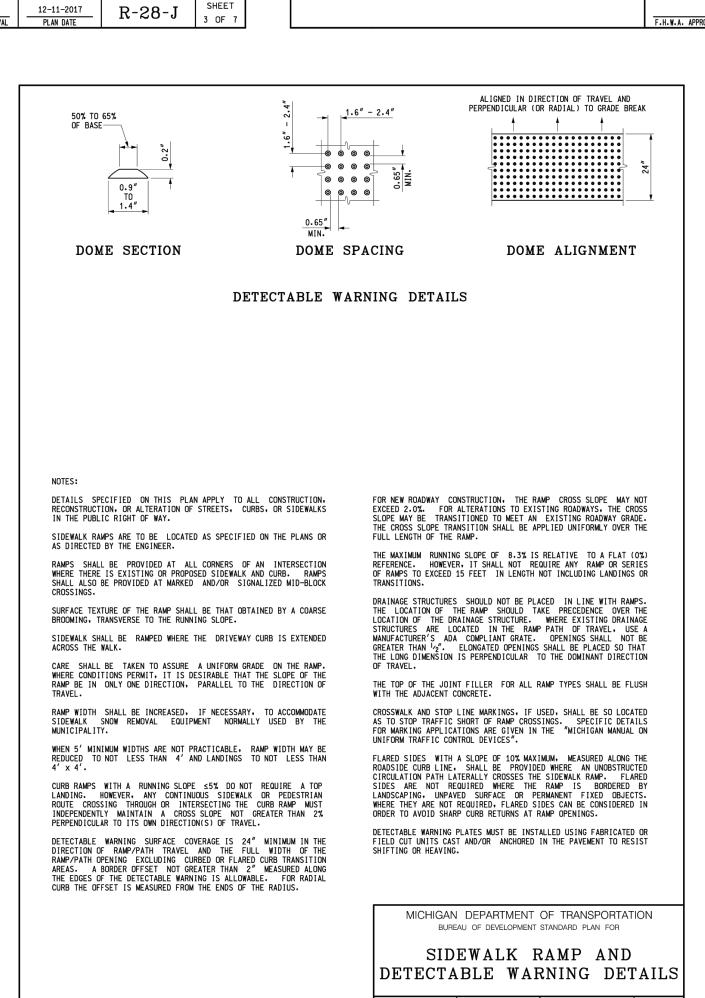
"NON-WALKING" AREA

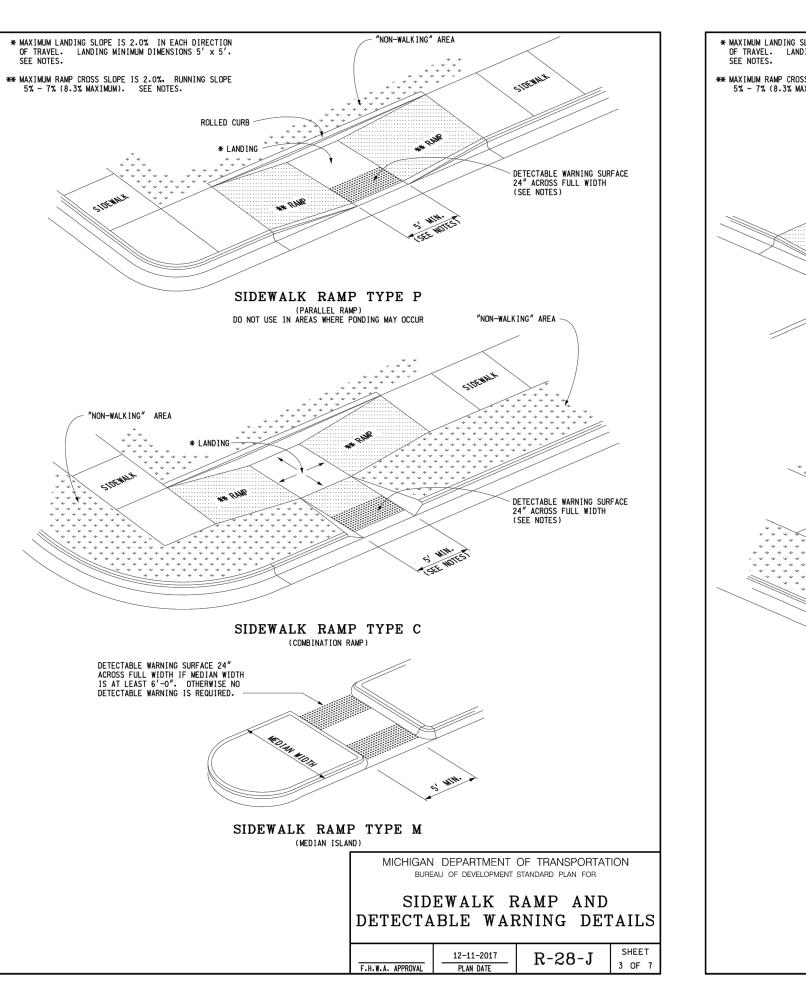
SIDEWALK RAMP TYPE R

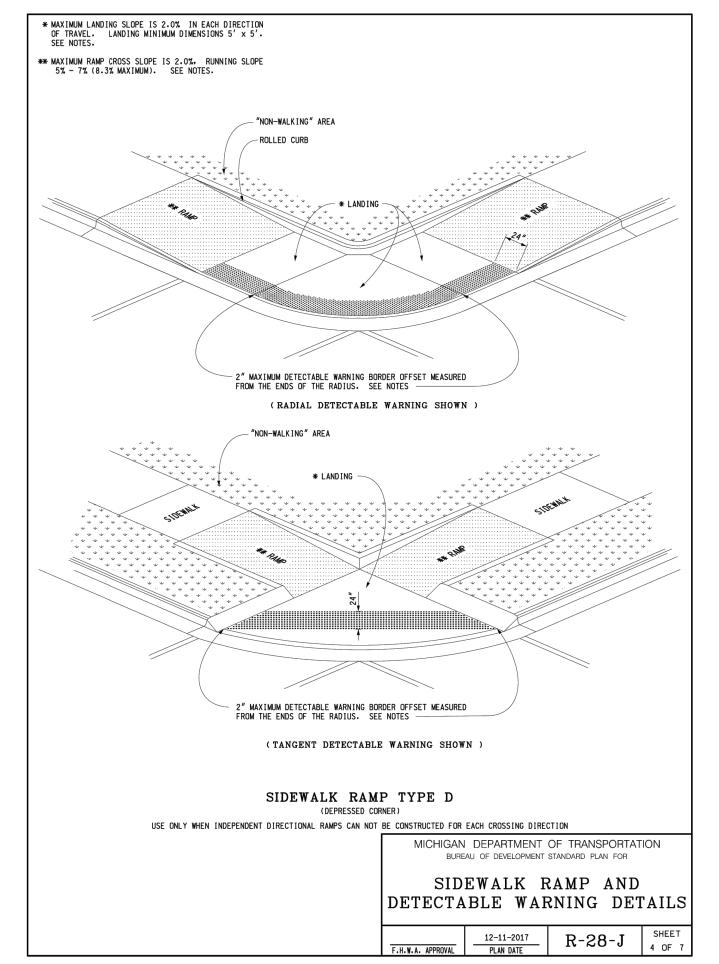
(ROLLED SIDES)

\* LANDING

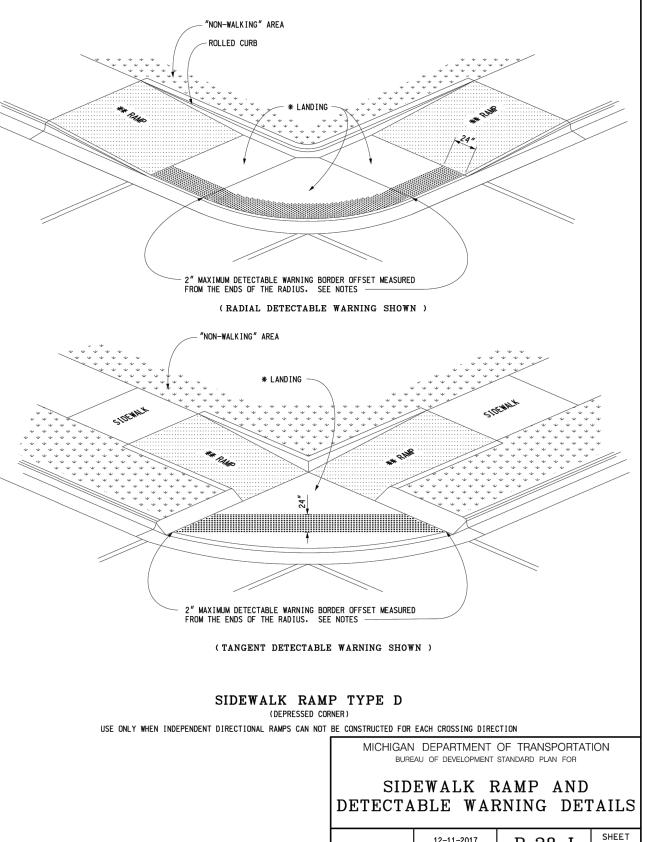


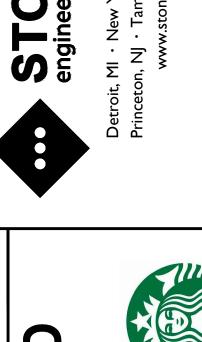






R-28-J SHEET





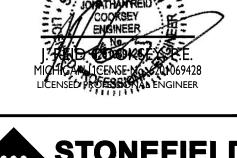
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CITY FILE #21-030 SECTION #9

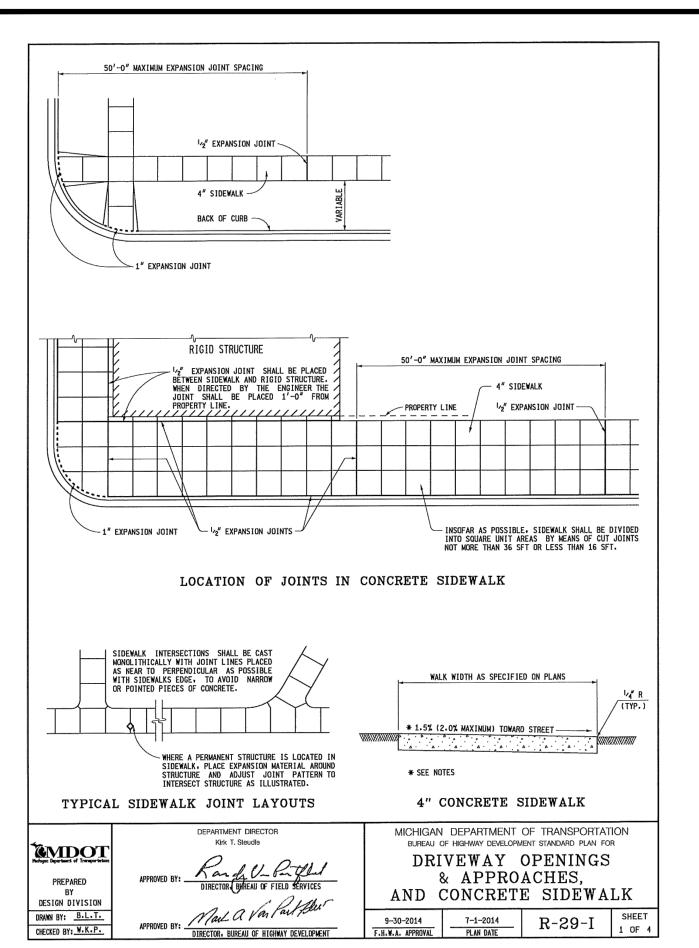
SCALE: AS SHOWN PROJECT ID: DET-200412 **CONSTRUCTION** 

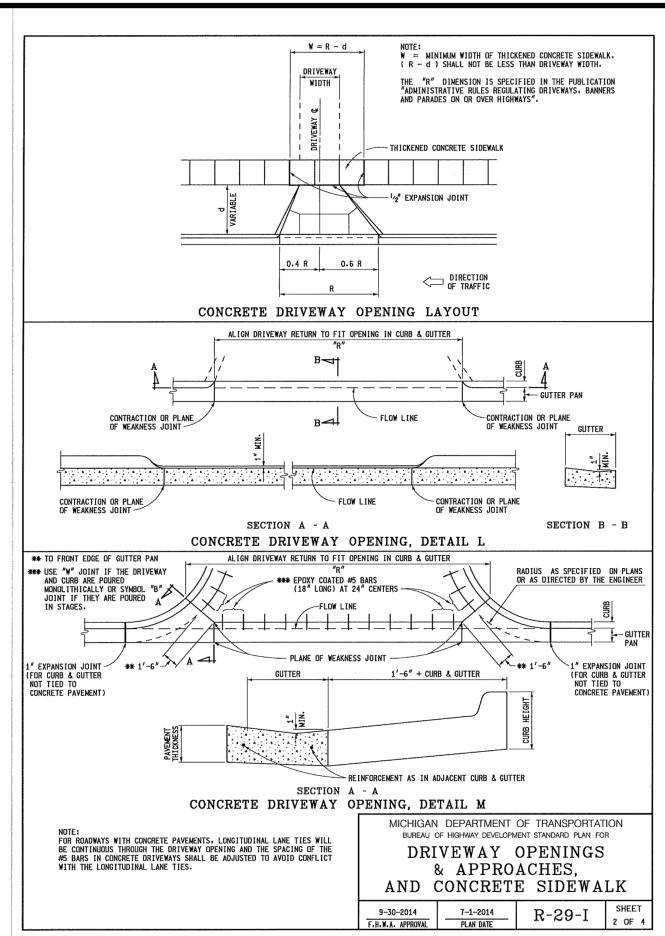
**DETAILS** DRAWING:

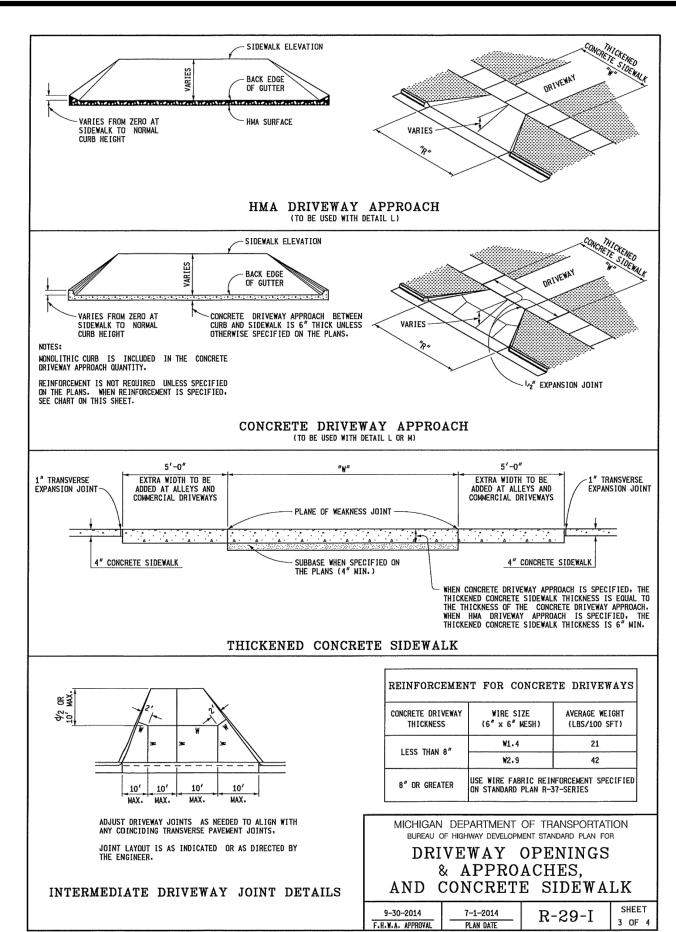
**C-15** 

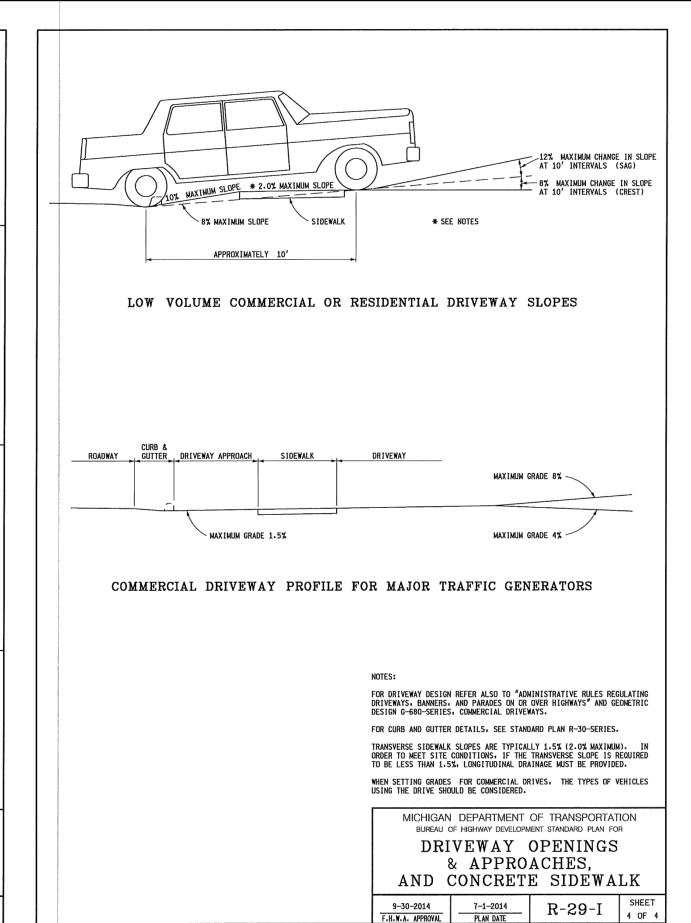
NOT TO SCALE

# MDOT SIDEWALK RAMP AND DETECTABLE WARNING DETAILS (R-28-J)



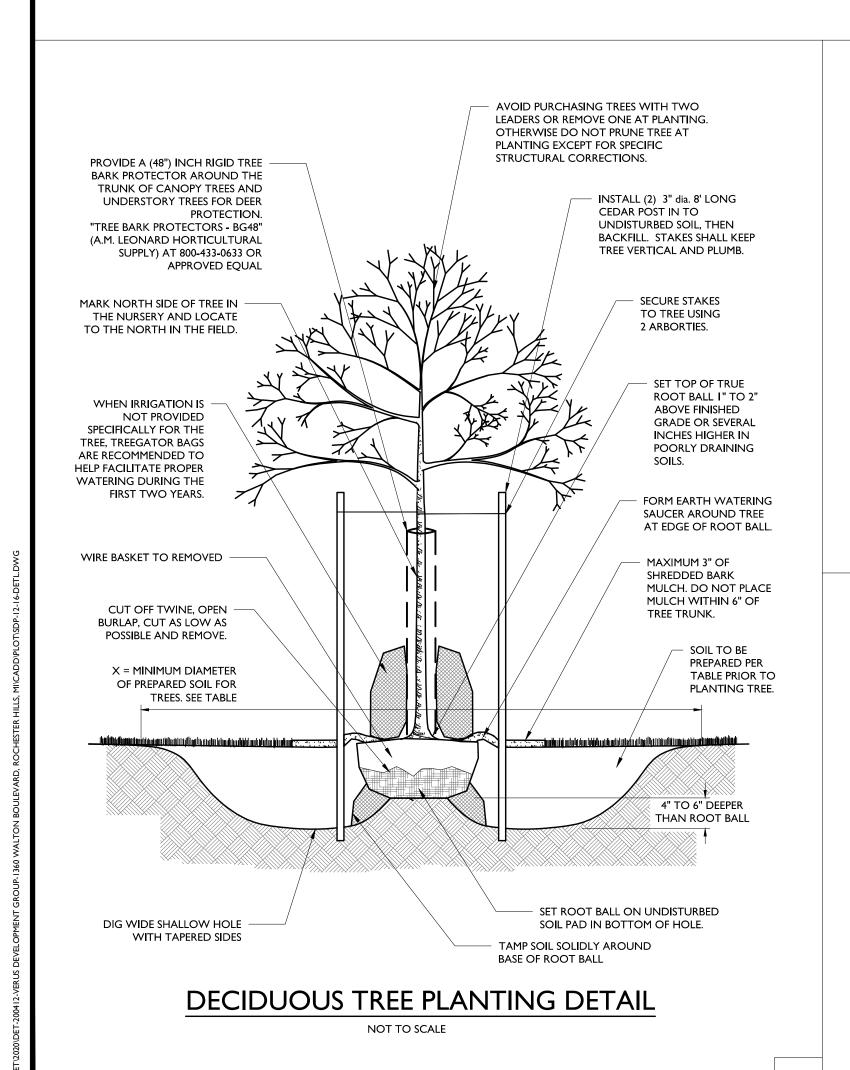


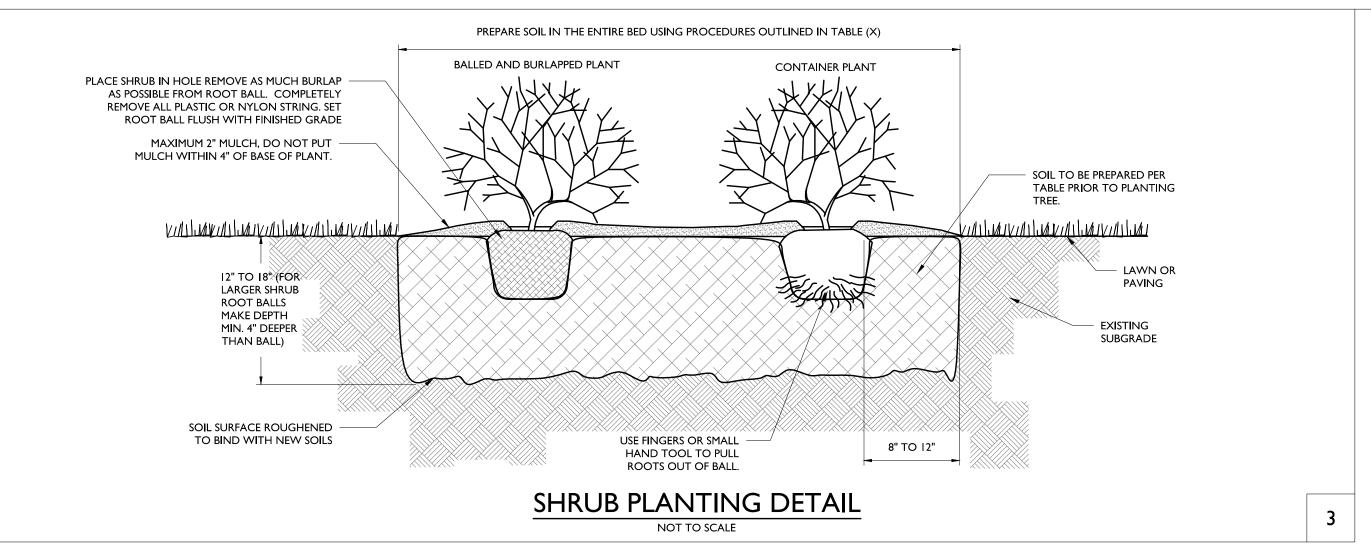


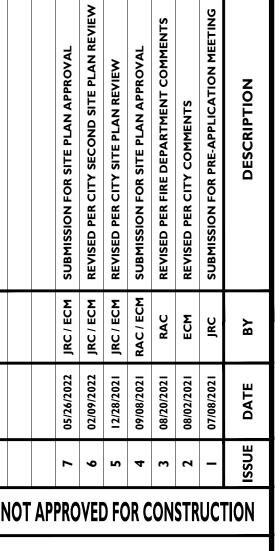


## DRIVEWAY OPENINGS & APPROACHES, AND CONCRETE SIDEWALK (R-29-I)

NOT TO SCALE



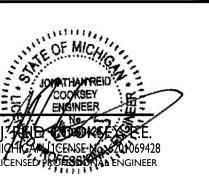






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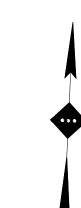
CITY FILE #21-030 SECTION #9

SCALE: AS SHOWN PROJECT ID: DET-200412

**CONSTRUCTION DETAILS** 

DRAWING:

**C-16** 



**SYMBOL** 

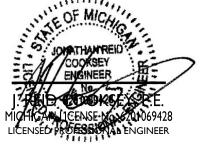
**DESCRIPTION** 

NOT APPROVED FOR CONSTRUCTION





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CITY FILE #21-030 SECTION #9

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I" = 40' PROJECT ID: DET-200412

SIGHT DISTANCE PLAN

DRAWING:

**C-17** 

**GENERAL NOTES** 

I. THE CONTRACTOR SHALL VERIFY AND FAMILIARIZE THEMSELVES WITH THE EXISTING SITE CONDITIONS AND THE PROPOSED SCOPE OF WORK (INCLUDING DIMENSIONS, LAYOUT, ETC.) PRIOR TO INITIATING THE IMPROVEMENTS IDENTIFIED THESE PROPERTY. DOCUMENTS. SHOULD ANY DISCREPANCY BE FOUND BETWEEN THE EXISTING SITE CONDITIONS AND THE PROPOSED WORK THE CONTRACTOR SHALL NOTIFY STONEFIELD ENGINEERING & DESIGN,

LLC. PRIOR TO THE START OF CONSTRUCTION.

2. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND ENSURE THAT ALL REQUIRED APPROVALS HAVE BEEN OBTAINED PRIOR TO THE START OF CONSTRUCTION. COPIES OF ALL REQUIRED

PERMITS AND APPROVALS SHALL BE KEPT ON SITE AT ALL TIMES DURING CONSTRUCTION.

3. ALL CONTRACTORS WILL, TO THE FULLEST EXTENT PERMITTED BY LAW, INDEMNIFY AND HOLD HARMLESS STONEFIELD ENGINEERING & DESIGN, LLC. AND IT'S SUB-CONSULTANTS FROM AND AGAINST ANY DAMAGES AND LIABILITIES INCLUDING ATTORNEY'S FEES ARISING OUT OF CLAIMS BY EMPLOYEES OF THE CONTRACTOR IN ADDITION TO CLAIMS CONNECTED TO THE PROJECT AS A RESULT OF NOT CARRYING THE PROPER INSURANCE FOR WORKERS COMPENSATION,

LIABILITY INSURANCE, AND LIMITS OF COMMERCIAL GENERAL LIABILITY INSURANCE. THE CONTRACTOR SHALL NOT DEVIATE FROM THE PROPOSED IMPROVEMENTS IDENTIFIED WITHIN THIS PLAN SET UNLESS APPROVAL IS PROVIDED IN WRITING BY STONEFIELD ENGINEERING & DESIGN,

5. THE CONTRACTOR IS RESPONSIBLE TO DETERMINE THE MEANS AND METHODS OF CONSTRUCTION.
6. THE CONTRACTOR SHALL NOT PERFORM ANY WORK OR CAUSE

DISTURBANCE ON A PRIVATE PROPERTY NOT CONTROLLED BY THE PERSON OR ENTITY WHO HAS AUTHORIZED THE WORK WITHOUT PRIOR WRITTEN CONSENT FROM THE OWNER OF THE PRIVATE PROPERTY.

7. THE CONTRACTOR IS RESPONSIBLE TO RESTORE ANY DAMAGED OR UNDERMINED STRUCTURE OR SITE FEATURE THAT IS IDENTIFIED TO REMAIN ON THE PLAN SET. ALL REPAIRS SHALL USE NEW MATERIALS TO RESTORE THE FEATURE TO ITS EXISTING CONDITION AT THE CONTRACTORS EXPENSE.

8. CONTRACTOR IS RESPONSIBLE TO PROVIDE THE APPROPRIATE SHOP DRAWINGS, PRODUCT DATA, AND OTHER REQUIRED SUBMITTALS FOR REVIEW. STONEFIELD ENGINEERING & DESIGN, LLC. WILL REVIEW THE SUBMITTALS IN ACCORDANCE WITH THE DESIGN INTENT AS

REFLECTED WITHIN THE PLAN SET.

9. THE CONTRACTOR IS RESPONSIBLE FOR TRAFFIC CONTROL IN

ACCORDANCE WITH MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.

10. THE CONTRACTOR IS REQUIRED TO PERFORM ALL WORK IN THE PUBLIC RIGHT-OF-WAY IN ACCORDANCE WITH THE APPROPRIATE GOVERNING AUTHORITY AND SHALL BE RESPONSIBLE FOR THE PROCUREMENT OF STREET OPENING PERMITS.

11. THE CONTRACTOR IS REQUIRED TO RETAIN AN OSHA CERTIFIED

SAFETY INSPECTOR TO BE PRESENT ON SITE AT ALL TIMES DURING CONSTRUCTION & DEMOLITION ACTIVITIES. 12. SHOULD AN EMPLOYEE OF STONEFIELD ENGINEERING & DESIGN, LLC.
BE PRESENT ON SITE AT ANY TIME DURING CONSTRUCTION, IT DOES NOT RELIEVE THE CONTRACTOR OF ANY OF THE RESPONSIBILITIES AND REQUIREMENTS LISTED IN THE NOTES WITHIN THIS PLAN SET.

GRAPHIC SCALE IN FEET I" = 40'