

City of Grosse Pointe Woods

Wayne County, Michigan

Lake Front Park Boat Launch Parking Lot

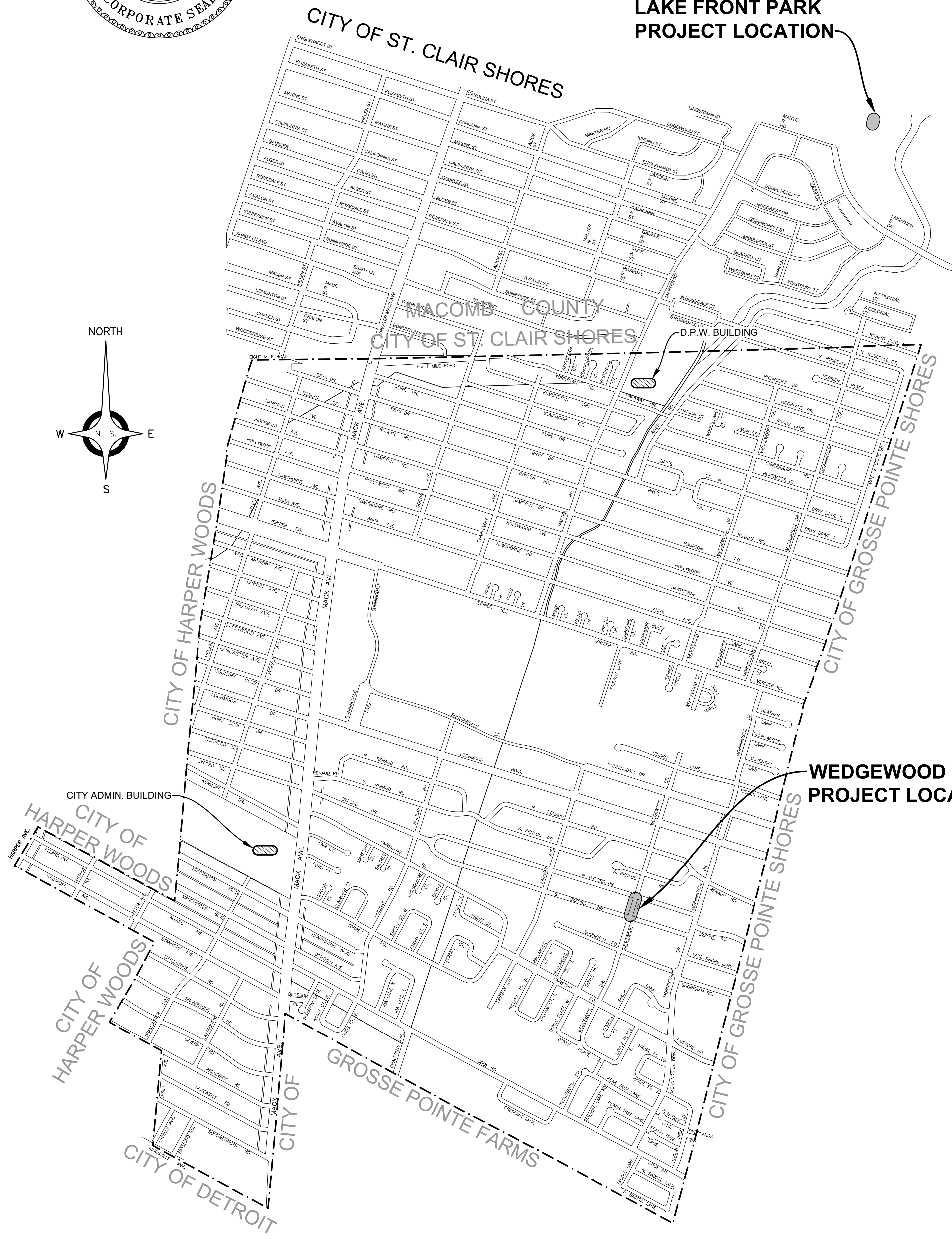
23000 Jefferson Avenue

Wedgewood Resurfacing

S. Oxford Drive to N. Oxford Drive

LAKE FRONT PARK
PROJECT LOCATION

WEDGEWOOD
PROJECT LOCATION



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DESIGN & CONSTRUCTION STANDARD

THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE PERFORMED IN ACCORDANCE WITH THE MICHIGAN DEPARTMENT OF TRANSPORTATION 2020 STANDARD SPECIFICATIONS FOR CONSTRUCTION AND THE CITY OF GROSSE POINTE WOODS STANDARD SPECIFICATIONS UNLESS MODIFIED BY A SPECIAL PROVISION.

ALL TRAFFIC CONTROL DEVICES SUCH AS LIGHTED ARROW BOARDS, PLASTIC DRUMS, BARRICADES, TEMPORARY SIGNAGE, AND LANE CLOSURES SHALL BE IMPLEMENTED IN ACCORDANCE WITH THE 2011 MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND THE SUPPLEMENTARY MAINTAINING TRAFFIC SPECIAL PROVISION.

PROJECT DESCRIPTION

FOR LAKE FRONT PARK, THE PROJECT CONSISTS OF HMA PAVEMENT REMOVAL, EARTH EXCAVATION, STORM DRAINAGE STRUCTURES ADJUSTMENTS, HMA PLACEMENT, PAVEMENT MARKINGS AND MISCELLANEOUS RELATED ITEMS OF WORK. FOR WEDGEWOOD, THE PROJECT CONSISTS OF 0.1 MILES OF ROAD RESURFACING. THE RESURFACING WORK INVOLVES HMA REMOVAL AND RESURFACING ALONG THE ENTIRE ROAD WIDTH AND OTHER MISCELLANEOUS RELATED ITEMS OF WORK. THIS PROJECT ALSO INCLUDES ASPHALT PATCHING AND CONCRETE JOINT REPAIR AT VARIOUS LOCATIONS IN THE CITY.

LOCAL AUTHORITY APPROVAL
CITY OF GROSSE POINTE WOODS

JIM KOWALSKI, DIRECTOR OF PUBLIC SERVICES

DATE

"I HEREBY CERTIFY THESE PLANS HAVE BEEN PREPARED UNDER MY DIRECT SUPERVISION IN ACCORDANCE WITH ACT 240, PUBLIC ACTS OF 1937 AS AMENDED- STATE OF MICHIGAN."

ROSS T. WILBERDING, P.E. No. 6201068836

DATE

GENERAL NOTES

UTILITIES

MISS DIG/UNDERGROUND UTILITY NOTIFICATION

For the protection of underground utilities and in conformance with Public Act 174 of 2013, the Contractor shall contact MISS DIG System, Inc. by phone at 811 or 800-482-7171 or via the web at either elocate.missdig.org for single address or rte.missdig.org, a minimum of 3 work days prior to excavating, excluding weekends and holidays.

ROW / REAL ESTATE

LAWN SPRINKLER SYSTEMS AND LANDSCAPING

Owners of existing lawn sprinkler systems and/or landscaping shall be notified in advance of any work to be done that will affect those systems and/or landscaping. If the property owner fails to relocate the lawn sprinkler system prior to the Contractor beginning work, the Contractor shall carefully salvage the landscaping items and stockpile them on the property owner's property for the property owner. If the Contractor cuts the system during the construction, the Contractor shall cap the system pipe and witness the location of the cap with a wooden stake.

DRAINAGE

ILLCIT CONNECTIONS TO STORM WATER SYSTEM

Connections to existing storm conveyance systems not shown on the plans must be reconnected with minimal interruption in service. Size, type and location by station and offset of any suspect illicit discharge observed shall be reported to the Engineer prior to reconnecting. Contractor shall proceed as directed by the Engineer.

EARTHWORK

SOIL EROSION MEASURES

Appropriate soil erosion and sedimentation control measures shall be in place prior to earth-disturbing activities. Place turf establishment items as soon as possible on potential erodable slopes as directed by the Engineer.

BASES

AGGREGATE BASE

Aggregate bases shall be 21AA in accordance with the MDOT 2020 Standard Specifications for Construction.

PAVEMENT

SOIL BORINGS AND/OR PAVEMENT CORES

The soil boring logs and/or pavement cores represent point information. No inference should be made that subsurface or pavement conditions are the same at other locations.

CONCRETE

The type of concrete to be used on this project is Type P1.

LANDSCAPING

All equipment to be used must be approved by the Engineer prior to beginning work.

Storage of equipment and materials will be restricted to areas designated by the Owner.

Branches of all trees to be saved shall not be removed, or damaged by construction equipment. If removal of lower branches is necessary, contact DPW for proper methods.

Contractor shall promptly restore any property damage at no expense to the Owner.

All excavated material will become the property of the Contractor. Any excavated material not used on the project shall be removed from the site and disposed of in accordance with Section 205.03.P. of the 2020 Standard Specification for Construction and any applicable state and/or local ordinances.

No cereal rye seeding shall be used on this project.

SIGNS

GENERAL

All signs shall be installed, removed and/or salvaged according to the current edition of "Michigan Manual on Uniform Traffic Control Devices" and the current edition of Michigan Department of Transportation (MDOT) "Standard Specifications for Construction."

All signs on the plans or in the log that do not have a recommendation are to be retained.

EXISTING SIGN RELOCATION

Any permanent signs requiring relocation due to Contractor operations shall be salvaged and reset by the Contractor at locations designated by the Engineer. Signs and posts damaged during the removal and storage operations shall be replaced with new signs and posts. The cost of this work shall be borne by the Contractor.

NOTES APPLYING TO STANDARD PLANS

Where the following items are called for on plans, they are to be constructed according to the standard plan series given below opposite each item unless otherwise indicated.

Title	Plan Series
SOIL EROSION & SEDIMENTATION CONTROL MEASURES	R-1*
DRIVEWAY OPENINGS & APPROACHES AND CONCRETE SIDEWALK	R-29
GRANULAR BLANKET, UNDERDRAINS, OUTLET ENDINGS FOR UNDERDRAINS, AND SEWER BULKHEADS	R-80
SOIL EROSION & SEDIMENTATION CONTROL MEASURES	R-96

* Denotes Special Detail

The existing utilities listed below and locations of utilities as shown on the plans represent the best information available at the time these plans were prepared. This information does not relieve the contractor of the responsibility to satisfy himself as to their accuracy or of his responsibility to verify all existing utilities within the C.I.A. In case utilities have been constructed or removed since the topographic survey was prepared.

NAME OF OWNER	UTILITY
DETROIT EDISON CO. TOM KOCH ONE ENERGY PLAZA 2045 WEB DETROIT, MI 48226 (313) 235-4432	POWER & ELECTRIC
D.T.E. COMMUNITY LIGHTING DEBRA CAIN (313) 618-6996	STREET LIGHTS
D.T.E. GAS COMPANY BASEL DSAZMATI 17150 ALLEN ROAD MELVINDALE, MICHIGAN 48122 (248) 825-4636	GAS
A.T.&T. ENGINEERING DEPARTMENT 100 S. MAIN ST., SUITE 314 MT. CLEMENS, MICHIGAN 48043 (586) 466-1024	TELEPHONE & OTHER COMMUNICATION SYSTEMS
COMCAST CABLE WARREN SETTY 6095 WALL STREET STERLING HEIGHTS, MICHIGAN 48312 (586) 883-7253	CABLE TV
WAYNE COUNTY DEPARTMENT OF SERVICES PETE MILENKOVICH 29900 GODDARD ROAD DETROIT, MICHIGAN 48241 (734) 955-2154	TRAFFIC SIGNALS
CITY OF GROSSE POINTE WOODS DEPARTMENT OF PUBLIC WORKS JIM KOWALSKI 1200 PARKWAY GROSSE POINTE WOODS, MICHIGAN 48236 (313) 343-2460	WATER / SEWER



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DATE	SUBMITTALS/REVISIONS

PROJECT NAME:

**LAKE FRONT PARK
BOAT LAUNCH
PARKING LOT AND
WEDGEWOOD
RESURFACING**

SHEET TITLE:

NOTE SHEET

CLIENT:
CITY GROSSE POINTE WOODS

<input checked="" type="checkbox"/> PRELIMINARY	<input checked="" type="checkbox"/> CONSTRUCTION 12-4-2024	<input type="checkbox"/> RECORD
DRAWN BY: JPB	CHECKED BY: RTW	DATE: DECEMBER 2024
SCALE: NOT TO SCALE		



UTILITY INFORMATION, AS SHOWN, INDICATES APPROXIMATE LOCATIONS AND TYPES OF EXISTING FACILITIES ONLY, AS DISCLOSED BY RECORDS PROVIDED TO THIS FIRM FROM THE VARIOUS UTILITY COMPANIES. NO GUARANTEE IS GIVEN OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF.

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DURING CONSTRUCTION, THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN OPERATING NEAR ANY AND ALL OVERHEAD AND / OR BURIED UTILITIES.

PROJECT NO.
0160-0480

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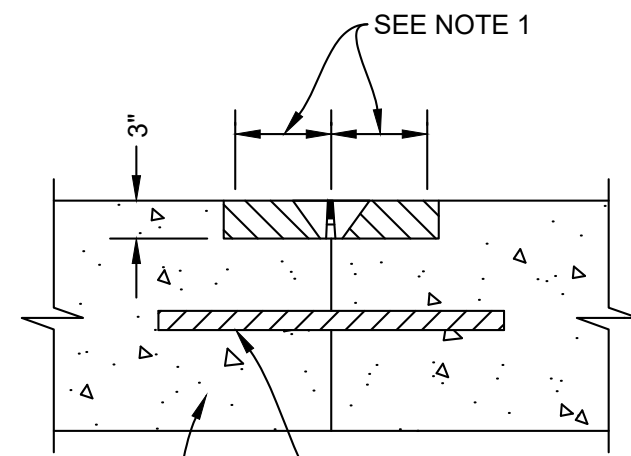
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NOTE:
1. 24 INCHES MIN. WIDTH, MAX. TO MATCH THE WIDTH OF THE SPALL.

EXISTING NON-REINFORCED CONCRETE PAVEMENT
LANE TIE OR HOOK BOLT (± MID-DEPTH)

AREA TO BE REMOVED INCLUDE IN 'Pavt Joint and Crack Repr, Det 7, Special'

CONCRETE JOINT REPAIR DETAIL
APPLIES ON VARIOUS PATCHING LOCATIONS
NOT TO SCALE

HMA APPLICATION ESTIMATE

PAY ITEM	ESTIMATED THICKNESS	PERFORMANCE GRADE	COMMENTS
Hand Patching, Modified	3" MIN.	64-22	SEML

*FOR INFORMATION ONLY. PAYMENT FOR HMA BOND COAT IS INCLUDED IN UNIT PRICE BID FOR HMA MIXTURES.

NOTE: HMA MIXTURES SHALL BE PLACED IN LIFTS WHICH DO NOT EXCEED THE MAXIMUM HMA APPLICATION RATES IN THE CURRENT MDOT HMA SELECTION GUIDELINES

DATE	SUBMITTALS/REVISIONS

PROJECT NAME:

LAKE FRONT PARK
BOAT LAUNCH
PARKING LOT AND
WEDGEWOOD
RESURFACING

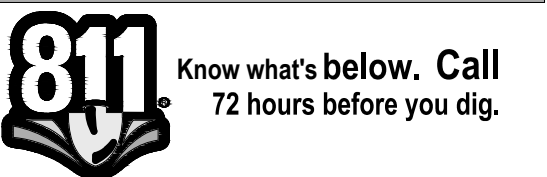
SHEET TITLE:

MISCELLANEOUS
PROJECT DETAILS

CLIENT:

CITY GROSSE POINTE WOODS

<input checked="" type="checkbox"/> PRELIMINARY	<input checked="" type="checkbox"/> CONSTRUCTION 12-4-2024	<input type="checkbox"/> RECORD
DRAWN BY: JPB	CHECKED BY: RTW	DATE: DECEMBER 2024
SCALE: NOT TO SCALE		



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DURING CONSTRUCTION, THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN OPERATING NEAR ANY AND ALL OVERHEAD AND / OR BURIED UTILITIES.

PROJECT NO.

0160-0480

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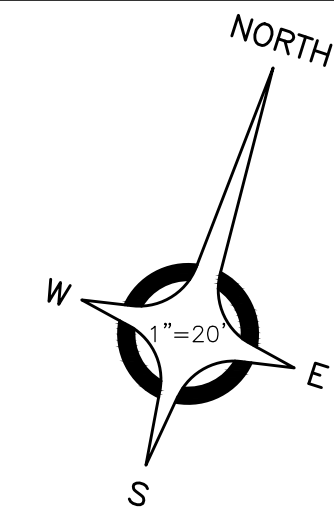
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NOTES:

- NO ATTEMPT IS MADE TO STIPULATE EVERY REQUIRED ITEM OF REMOVAL AND DEMOLITION EITHER ON DRAWINGS OR IN SPECIFICATIONS. VISIT THE SITE AND STUDY EXISTING PHYSICAL CONDITIONS, REVIEW DRAWINGS, AND REACH CONCLUSIONS ON WORK NECESSARY TO ACCOMPLISH INTENDED RESULTS DESCRIBED BY THE PROJECT DOCUMENTS.
- ALL DEMOLITION WORK SHALL CONFORM TO GOVERNING AGENCY DESIGN STANDARDS AND SPECIFICATIONS. COMPLY WITH OSHA REGULATIONS INsofar AS THEY APPLY TO THE REQUIRED WORK.
- SOIL EROSION AND SILTATION CONTROL MEASURES MUST BE IN PLACE PRIOR TO STARTING REMOVALS AND EARTH MOVING OPERATIONS. THESE CONTROL MEASURES SHALL CONFORM IN ALL RESPECTS TO GOVERNING AGENCY REQUIREMENTS.
- PROVIDE A DESIGNATED AREA (TO BE APPROVED BY OWNER) FOR STORAGE OF MATERIALS, EQUIPMENT AND PARKING OF THE REQUIRED EQUIPMENT. DESIGNATE A TRAFFIC LANE FOR INGRESS AND EGRESS FROM THE WORK AREA. IF REQUIRED, PROVIDE FLAG MEN FOR A SAFE AND EFFICIENT MOVEMENT OF VEHICLES. NO CHANGES TO THE WORK AREA OR TO THE AGREED TRAFFIC PATTERN SHALL BE MADE WITHOUT PRIOR APPROVAL OF THE OWNER CONSTRUCTION MANAGER. THE CONSTRUCTION MANAGER WILL SECURE THE APPROVAL FOR SUCH CHANGES.
- COMPLETELY RESTORE ALL DISTURBED AREAS TO A CONDITION EQUAL TO OR BETTER THAN EXISTING CONDITION AND TO THE SATISFACTION OF THE OWNER AND MUNICIPALITY. ALL COSTS FOR CLEAN-UP, RESTORATION WORK AND OTHER IMMEDIATE OPERATIONS SUCH AS, BUT NOT LIMITED TO, CONSTRUCTION SIGNAGE, STREET SWEEPING, AND MAINTAINING EXISTING UTILITIES SHALL BE THE CONTRACTORS RESPONSIBILITY. PERFORM RESTORATION WORK WITHIN 5 DAYS AFTER COMPLETION OF FINAL GRADING.
- WHERE EXISTING PAVEMENT IS TO BE PARTIALLY REMOVED, SAWCUT PAVEMENT FULL DEPTH TO PROVIDE A SMOOTH JOINT WITH PROPOSED PAVEMENT.
- REMOVE ALL EXISTING UTILITY PIPING SERVICES WITHIN THE DESIGNATED WORK AREA UNLESS OTHERWISE INDICATED ON THE PLANS. DISCONNECT FROM PUBLIC UTILITIES IN ACCORDANCE WITH UTILITY OWNER'S REQUIREMENTS.
- PROMPTLY REMOVE ALL DEMOLITIONS, REMOVALS, RUBBISH, AND DEBRIS FROM THE LIMITS OF THE OWNER'S PROPERTY AND DISPOSE IN A LEGAL MANNER.
- EXCAVATIONS AND HAZARDOUS AREAS SHALL BE PROTECTED BY BARRICADES. BARRICADES LEFT IN PLACE AT NIGHT SHALL BE LIGHTED.
- RESTORE AT CONTRACTOR'S EXPENSE ANY STRUCTURES, PIPE, UTILITY, PAVEMENT, CURBS, SIDEWALKS, LANDSCAPED AREAS, ETC. WITHIN THE SITE OR ADJOINING PROPERTIES DISTURBED DURING DEMOLITION OR CONSTRUCTION TO THEIR ORIGINAL CONDITION OR BETTER, AND TO THE SATISFACTION OF THE OWNER AND LOCAL MUNICIPALITY. ALL WORK WITHIN A D.O.T. RIGHT-OF-WAY SHALL COMPLY WITH ALL D.O.T. STANDARDS.
- THE WORK INCLUDED SHALL BE PERFORMED AS INDICATED ON THE PLANS. STOCKPILING, STORAGE OF MATERIALS AND ACCESS TO THE SITE SHALL BE COORDINATED WITH THE OWNER.
- PRESERVE ALL SURVEY STAKES AND PROPERTY LINE MONUMENTS. ANY STAKES OR MONUMENTS DESTROYED OR DISTURBED IN THE COURSE OF WORK SHALL BE RESTORED OR REPLACED AT THE CONTRACTOR'S EXPENSE.
- ALL EXCAVATION IS CONSIDERED UNCLASSIFIED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MEANS, METHODS, AND MATERIALS OF CONSTRUCTION TO COMPLETE CONSTRUCTION AS DESIGNED. ADDITIONALLY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE OFF-SITE DISPOSAL OF ANY AND ALL EXCESS OR UNSUITABLE MATERIAL AND THE IMPORTATION OF ANY BORROW MATERIAL NECESSARY TO COMPLETE THE JOB.
- OWNER RESERVES THE RIGHT TO SALVAGE EXISTING MATERIALS. COORDINATE DISPOSAL OF MATERIALS WITH OWNER.
- BACKFILL TRENCHES RESULTING FROM UNDERGROUND UTILITY REMOVAL WITH CL-II SAND COMPACTED TO 95% MAX. UNIT WEIGHT.

BENCH MARKS (NAVD88 DATUM)

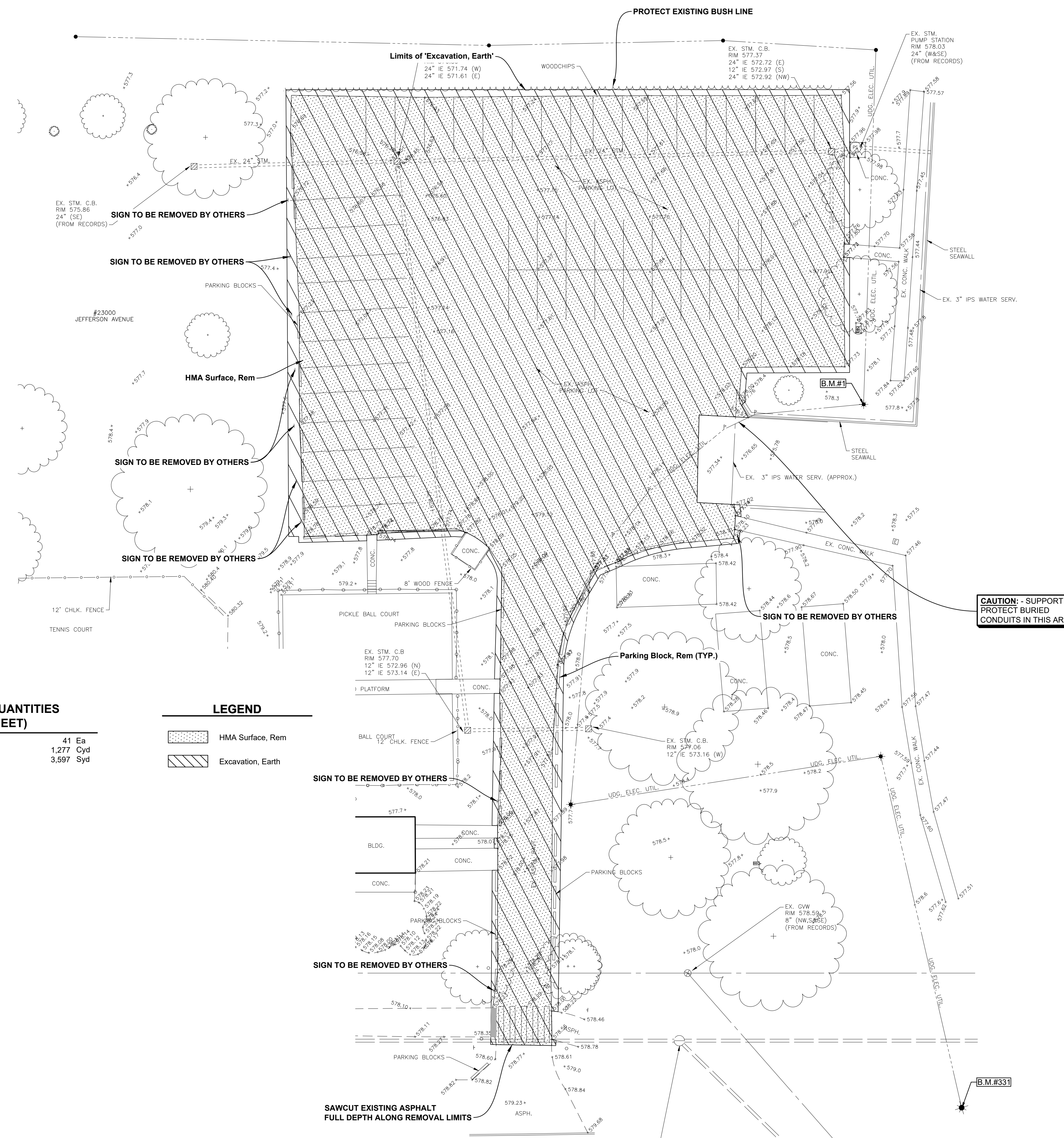
- BENCH MARK NO. 1**
 CHIS 'X' ON SOUTHEAST BOLT LIGHT POLE BASE ON EAST SIDE OF BOAT LAUNCH. 27'± EASTERLY TO DORMANT BARBEQUE GRILL. 18'± SOUTHERLY TO ELECTRIC PEDESTAL FOR BOAT.
 ELEVATION: 580.71
- BENCH MARK NO. 331**
 CHIS 'X' ON SOUTHEAST BOLT LIGHT POLE BASE 40'± WEST OF WEST END PEDESTRIAN BRIDGE OVER MILK RIVER.
 ELEVATION: 583.65
- BENCH MARK NO. 332**
 CHIS 'X' ON NORTHEAST BOLT LIGHT POLE BASE ON SOUTH SIDE LAKE FRONT PARK ENTRANCE DRIVE. 300'± EAST OF JEFFERSON.
 ELEVATION: 581.72

ESTIMATED QUANTITIES (THIS SHEET)

1. Parking Block, Rem	41 Ea
2. Excavation, Earth	1,277 Cyd
3. HMA Surface, Rem	3,597 Syd

LEGEND

- HMA Surface, Rem
- Excavation, Earth



CAUTION: - SUPPORT & PROTECT BURIED CONDUITS IN THIS AREA

DATE	SUBMITTALS/REVISIONS

PROJECT NAME:
LAKE FRONT PARK BOAT LAUNCH PARKING LOT AND WEDGEWOOD RESURFACING

SHEET TITLE:

REMOVAL PLAN
 23000 JEFFERSON AVE.

CLIENT:
 CITY GROSSE POINTE WOODS

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DRAWN BY: JPB	CHECKED BY: RTW	DATE: DECEMBER 2024
SCALE: 1" = 20' HORIZ.		
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DURING CONSTRUCTION, THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN OPERATING NEAR ANY AND ALL OVERHEAD AND / OR BURIED UTILITIES.

PROJECT NO. 0160-0480

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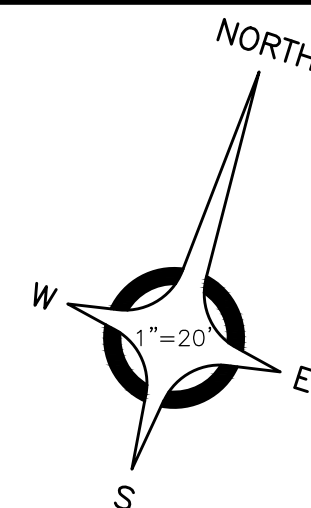
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GENERAL CONSTRUCTION NOTES:

- THE CONTRACTOR AT ALL TIMES SHALL FOLLOW ALL FEDERAL, STATE AND LOCAL SAFETY REQUIREMENTS DURING CONSTRUCTION OF THIS PROJECT. SPECIAL CARE SHALL BE TAKEN DURING ALL TRENCHING OPERATIONS. SHEETING AND BRACING, CRIBBING, ETC., MUST BE INSTALLED AS REQUIRED TO PROVIDE MAXIMUM SAFETY TO THE CONTRACTOR'S WORKERS IN FULL COMPLIANCE WITH OSHA REGULATIONS.
- ALL CONSTRUCTION SHALL BE CONDUCTED SUCH THAT THERE WILL BE MINIMAL INTERFERENCE WITH STREETS, DRIVES OR WALKS. THE CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE OF TRAFFIC. DO NOT CLOSE OR OBSTRUCT STREETS, DRIVES OR WALKS OR USER FACILITIES WITHOUT PERMISSION FROM THE OWNER'S REPRESENTATIVE.
- CONTRACTOR SHALL KEEP EXISTING STREETS, ROADS AND DRIVES CLEAR OF DIRT, DEBRIS AND EQUIPMENT.
- CONTRACTOR SHALL BE RESPONSIBLE FOR SHORING AND FOR DEWATERING TO ACCOMPLISH ALL WORK INDICATED ON PLANS AND TO PERFORM REQUIRED COMPACTION OPERATIONS.
- REVIEW CONSTRUCTION AND PROVIDE TRAFFIC SEQUENCE AND SCHEDULE AT THE PRECONSTRUCTION MEETING WITH OWNER.
- THE CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS IN THE FIELD AND CONTACT THE ENGINEER IF THERE ARE ANY QUESTIONS OR CONFLICTS REGARDING THE CONSTRUCTION DOCUMENTS AND/OR FIELD CONDITIONS SO THAT APPROPRIATE REVISIONS CAN BE MADE PRIOR TO CONSTRUCTION. ANY CONFLICT BETWEEN DRAWINGS AND THE SPECIFICATIONS SHALL BE CONFIRMED WITH THE ENGINEER PRIOR TO BIDDING.
- THE CONTRACTOR SHALL ABIDE BY ALL OSHA, FEDERAL, STATE AND LOCAL REGULATIONS WHEN OPERATING CRANES, BOOMS, HOISTS, ETC. IN CLOSE PROXIMITY TO OVERHEAD ELECTRIC LINES. IF CONTRACTOR MUST OPERATE EQUIPMENT CLOSE TO ELECTRIC LINES, CONTACT THE POWER COMPANY TO MAKE ARRANGEMENTS FOR PROPER SAFEGUARDS.
- THE OWNER AT ITS DISCRETION RESERVES THE RIGHT TO MODIFY THE DETAILS AND STANDARDS OF CONSTRUCTION FOR ALL PRIVATE FACILITIES FROM THAT INDICATED ON THE APPROVED PLAN. PROVIDED THAT THE ALTERNATE STANDARD COMPLIES WITH LOCAL CODE AND/OR UTILITY COMPANY REQUIREMENTS AND THE GENERAL DESIGN INTENT OF THE PROJECT IS NOT COMPROMISED.
- CONTRACTOR SHALL MAINTAIN ALL TRAFFIC LANES AND PEDESTRIAN WALKWAYS AT ALL TIMES UNLESS WRITTEN APPROVAL FROM THE STATE DOT, LOCAL MUNICIPALITY, COUNTY, OR OTHER GOVERNING AUTHORITY IS RECEIVED.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER SHOULD ANY DISCREPANCY REGARDING THE PROPOSED WORK OR UNFORESEEN CONDITIONS ARISE PRIOR TO PROCEEDING FURTHER WITH THE AFFECTED WORK.
- THE CONTRACTOR SHALL PROVIDE AS-BUILT RECORDS OF ALL CONSTRUCTION (INCLUDING UNDERGROUND UTILITIES) TO THE ENGINEER AND OWNER FOLLOWING COMPLETION OF CONSTRUCTION ACTIVITIES.
- ALL PAVING AND AGGREGATE MATERIALS AND WORK COMPLETED SHALL BE IN STRICT ACCORDANCE WITH THE STATE DOT SPECIFICATIONS AND STANDARD DETAILS UNLESS OTHERWISE SPECIFIED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS FOR BUILDING, WALLS, CONCRETE SLABS, AND UTILITY SERVICE POINT CONNECTIONS AND NOTIFYING THE OWNER AND ENGINEER OF ANY CONFLICTS OR DISCREPANCIES PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF ALL PRODUCTS AND MATERIALS TO THE OWNER AND LOCAL UTILITY COMPANIES AS REQUIRED FOR REVIEW AND APPROVAL PRIOR TO FABRICATION OR DELIVERY TO THE SITE. ALLOW A MINIMUM OF 7 DAYS FOR REVIEW.
- THE CONTRACTOR SHALL REFERENCE ARCHITECTURAL PLANS FOR EXACT DIMENSIONS AND CONSTRUCTION DETAILS OF BUILDING, CANOPY, AND UTILITY CONNECTIONS.
- TRAFFIC CONTROL SIGNAGE SHALL CONFORM TO THE STATE DOT STANDARD DETAIL SHEETS AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. SIGNS SHALL BE INSTALLED PLUMB.
- FIRE LANES SHALL BE ESTABLISHED AND PROPERLY DESIGNATED IN ACCORDANCE WITH THE LOCAL MUNICIPALITY AND LOCAL FIRE DEPARTMENT REQUIREMENTS.
- THE CONTRACTOR SHALL REMOVE CONFLICTING PAVEMENT MARKINGS IN A METHOD APPROVED BY THE STATE DOT.
- AGGREGATES AND BITUMINOUS PAVEMENT MATERIAL AND INSTALLATION SPECIFICATIONS SHALL BE IN ACCORDANCE WITH STATE DOT SPECS. THE CONTRACTOR SHALL SUBMIT AGGREGATE SIEVE ANALYSIS AND A JOB-MIX FORMULA FOR THE BITUMINOUS PAVEMENT TO THE CONSTRUCTION MANAGER FOR REVIEW AND APPROVAL AT LEAST 14 DAYS PRIOR TO THE PLACEMENT OF BITUMINOUS PAVEMENTS.
- ALTERNATIVE METHODS AND PRODUCTS OTHER THAN THOSE SPECIFIED MAY BE USED IF REVIEWED AND APPROVED BY THE OWNER, ENGINEER, AND APPROPRIATE REGULATORY AGENCIES PRIOR TO INSTALLATION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION LAYOUTS AND SURVEYS REQUIRED TO PERFORM CONSTRUCTION. CADD FILE INFORMATION IS PROVIDED FOR REFERENCE ONLY.
- PROVIDE ADEQUATE BARRICADES AT DRIVES, ENTRANCES, EXCAVATIONS AND OTHER OPENINGS TO KEEP OUT UNAUTHORIZED PERSONS AND FOR PUBLIC SAFETY AND TRAFFIC CONTROL. SAFETY PROVISIONS OF APPLICABLE LAWS SHALL BE OBSERVED AT ALL TIMES. BARRICADES LEFT IN PLACE AT NIGHT SHALL BE LIGHTED.
- NO EQUIPMENT OR MATERIAL STORAGE IS PERMITTED WITHIN THE ROAD RIGHT-OF-WAY.
- CONTRACTOR'S MANNER AND METHOD OF INGRESS AND EGRESS WITH RESPECT TO THE PROJECT AREA SHALL IN NO WAY PROHIBIT OR DISTURB NORMAL PEDESTRIAN OR VEHICULAR TRAFFIC IN THE VICINITY AND IS SUBJECT TO REGULATION AND WRITTEN APPROVAL OF APPROPRIATE GOVERNING AGENCIES.
- CONSTRUCTION SHALL BE IN ACCORDANCE WITH A.D.A. REGULATIONS AS APPLICABLE.

BENCH MARKS (NAVD88 DATUM)

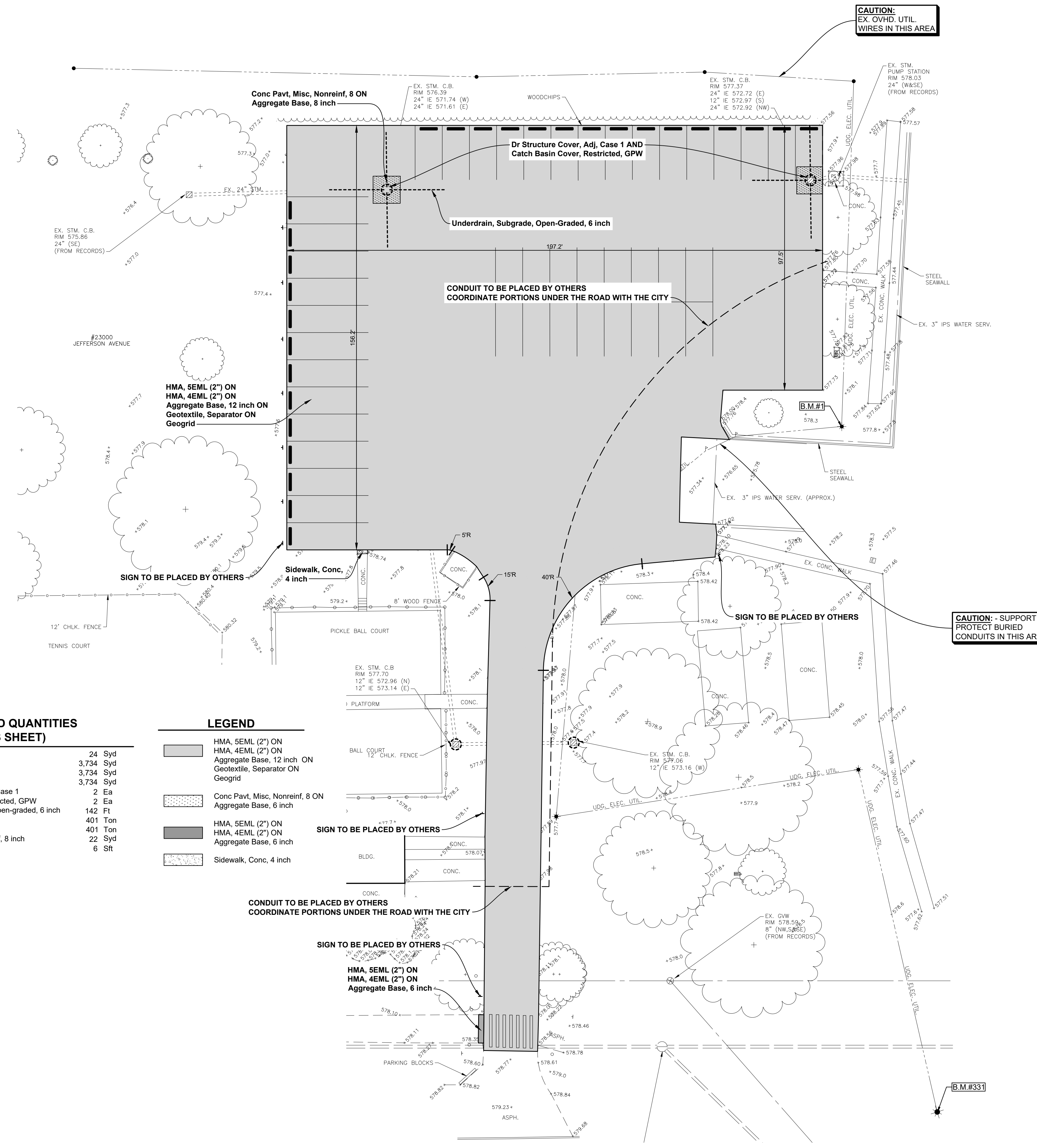
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 CHIS 'X' ON SOUTHEAST BOLT LIGHT POLE BASE ON EAST SIDE OF BOAT LAUNCH. 27± EASTERLY TO DORMANT BARBEQUE GRILL. 18± SOUTHERLY TO ELECTRIC PEDESTAL FOR BOAT.
 ELEVATION: 580.71
- BENCH MARK NO. 331**
 CHIS 'X' ON SOUTHEAST BOLT LIGHT POLE BASE 40± WEST OF WEST END PEDESTRIAN BRIDGE OVER MILK RIVER.
 ELEVATION: 583.65
- BENCH MARK NO. 332**
 CHIS 'X' ON NORTHEAST BOLT LIGHT POLE BASE ON SOUTH SIDE LAKE FRONT PARK ENTRANCE DRIVE, 300± EAST OF JEFFERSON. ELEVATION: 581.72

ESTIMATED QUANTITIES (THIS SHEET)

1. Aggregate Base, 8 inch	24	Syd
2. Aggregate Base, 12 inch	3,734	Syd
3. Geotextile, Separator	3,734	Syd
4. Geogrid	3,734	Syd
5. Dr Structure Cover, Adj, Case 1	2	Ea
6. Catch Basin Cover, Restricted, GPW	2	Ea
7. Underdrain, Subgrade, Open-graded, 6 inch	142	Ft
8. HMA, 4EML	401	Ton
9. HMA, 5EML	401	Ton
10. Conc Pavt, Misc, Nonreinf, 8 inch	22	Syd
11. Sidewalk, Conc, 4 inch	6	Sft

LEGEND

- HMA, 5EML (2") ON HMA, 4EML (2") ON Aggregate Base, 12 inch ON Geotextile, Separator ON Geogrid
- Conc Pavt, Misc, Nonreinf, 8 ON Aggregate Base, 6 inch
- HMA, 5EML (2") ON HMA, 4EML (2") ON Aggregate Base, 6 inch
- Sidewalk, Conc, 4 inch



CAUTION:
 EX. OVHD. UTIL.
 WIRES IN THIS AREA

CAUTION: - SUPPORT &
 PROTECT BURIED
 CONDUITS IN THIS AREA

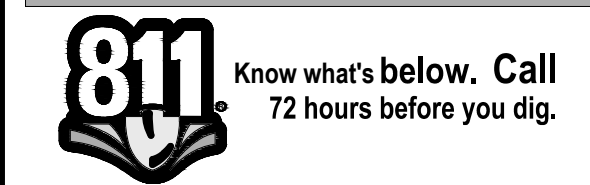
DATE	SUBMITTALS/REVISIONS

PROJECT NAME:
**LAKE FRONT PARK
 BOAT LAUNCH
 PARKING LOT AND
 WEDGEWOOD
 RESURFACING**

**CONSTRUCTION
 PLAN**
 23000 JEFFERSON AVE.

CLIENT:
 CITY GROSE POINTE WOODS

<input type="checkbox"/> PRELIMINARY	<input checked="" type="checkbox"/> CONSTRUCTION	<input type="checkbox"/> RECORD
DRAWN BY: JPB	CHECKED BY: RTW	DATE: DECEMBER 2024
SCALE: 1" = 20' HORIZ.		
0 10 20 40		



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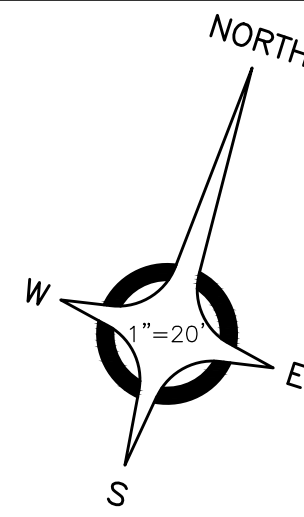
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DURING CONSTRUCTION, THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN OPERATING NEAR ANY AND ALL OVERHEAD AND / OR BURIED UTILITIES.

PROJECT NO. 0160-0480

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SHEET NO.

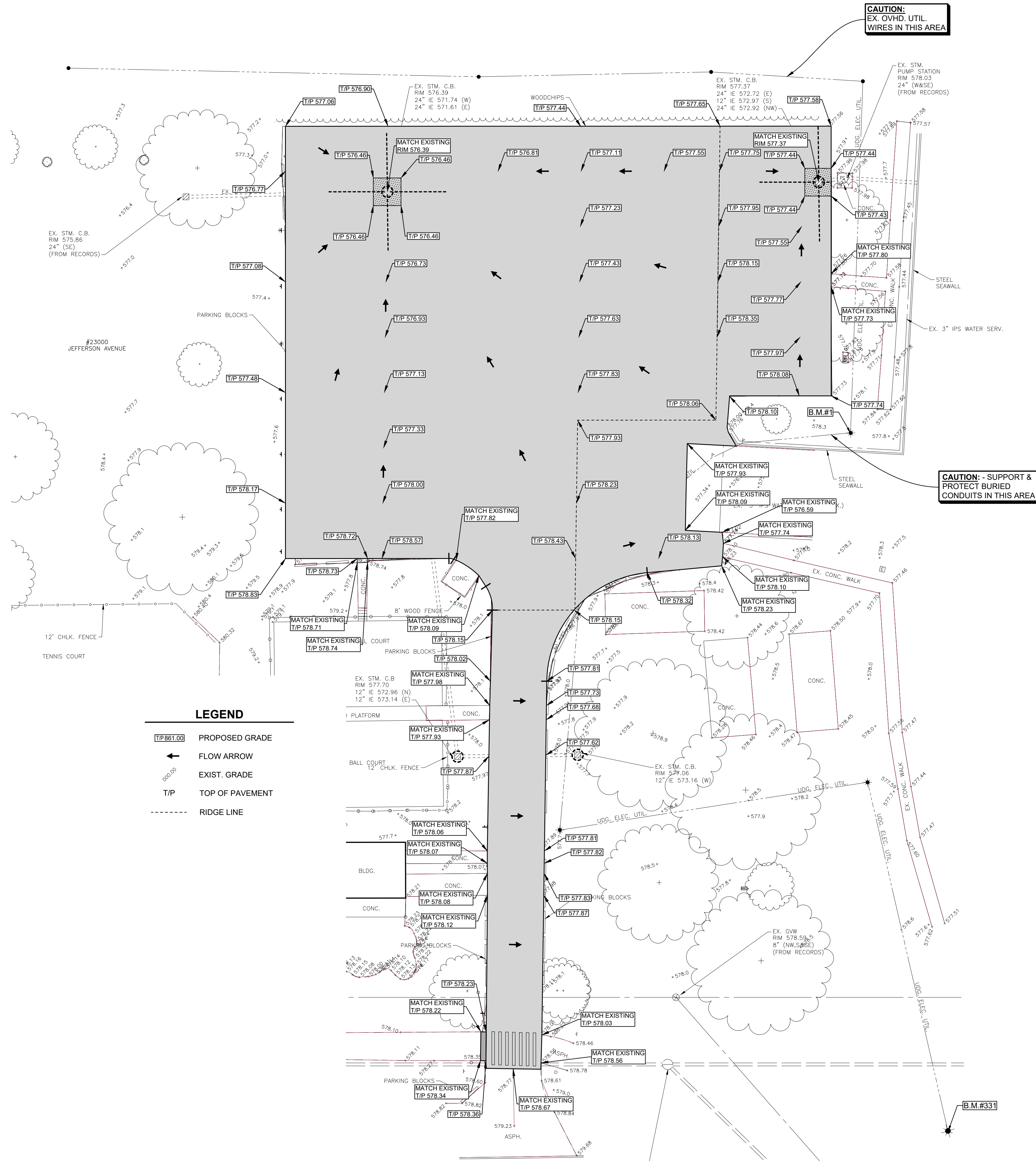


**BENCH MARKS
(NAVD88 DATUM)**

BENCH MARK NO. 1
CHIS 'X' ON SOUTHEAST
BOLT LIGHT POLE BASE ON
EAST SIDE OF BOAT
LAUNCH. 27± EASTERLY TO
DORMANT BARBEQUE
GRILL. 18± SOUTHERLY TO
ELECTRIC PEDESTAL FOR
BOAT.
ELEVATION: 580.71

BENCH MARK NO. 331
CHIS 'X' ON SOUTHEAST
BOLT LIGHT POLE BASE
40± WEST OF WEST END
PEDESTRIAN BRIDGE OVER
MILK RIVER.
ELEVATION: 583.65

BENCH MARK NO. 332
CHIS 'X' ON NORTHEAST
BOLT LIGHT POLE BASE ON
SOUTH SIDE LAKE FRONT
PARK ENTRANCE DRIVE,
300± EAST OF JEFFERSON.
ELEVATION: 581.72



LEGEND

- T/P 861.00 PROPOSED GRADE
- ← FLOW ARROW
- 580.00 EXIST. GRADE
- T/P TOP OF PAVEMENT
- RIDGE LINE

CAUTION:
EX. OVHD. UTIL.
WIRES IN THIS AREA

CAUTION - SUPPORT &
PROTECT BURIED
CONDUITS IN THIS AREA



ANDERSON, ECKSTEIN & WESTRICK, INC.
CIVIL ENGINEERS - SURVEYORS - ARCHITECTS

51301 Schoenherr Road
Shelby Township, MI 48315
586.726.1234 | aewinc.com

Engineering Strong Communities

DATE	SUBMITTALS/REVISIONS

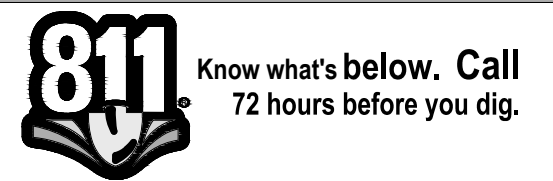
PROJECT NAME:
**LAKE FRONT PARK
BOAT LAUNCH
PARKING LOT AND
WEDGEWOOD
RESURFACING**

SHEET TITLE:

GRADING PLAN
23000 JEFFERSON AVE.

CLIENT:
CITY GROSSE POINTE WOODS

<input type="checkbox"/> PRELIMINARY	<input checked="" type="checkbox"/> CONSTRUCTION	<input type="checkbox"/> RECORD
DRAWN BY: JPB	CHECKED BY: RTW	DATE: DECEMBER 2024
SCALE: 1" = 20' HORIZ. 0 10 20 40		



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PROJECT NO. 0160-0480

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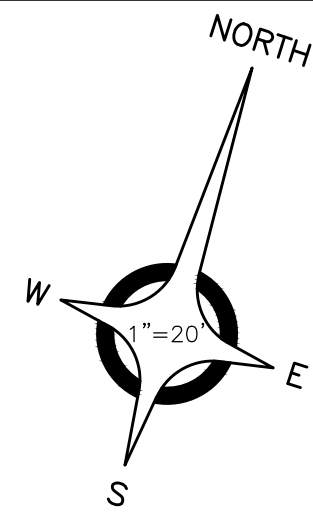
SHEET NO.



ANDERSON, ECKSTEIN & WESTRICK, INC.
CIVIL ENGINEERS - SURVEYORS - ARCHITECTS

51301 Schoenherr Road
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**BENCH MARKS
(NAVD88 DATUM)**

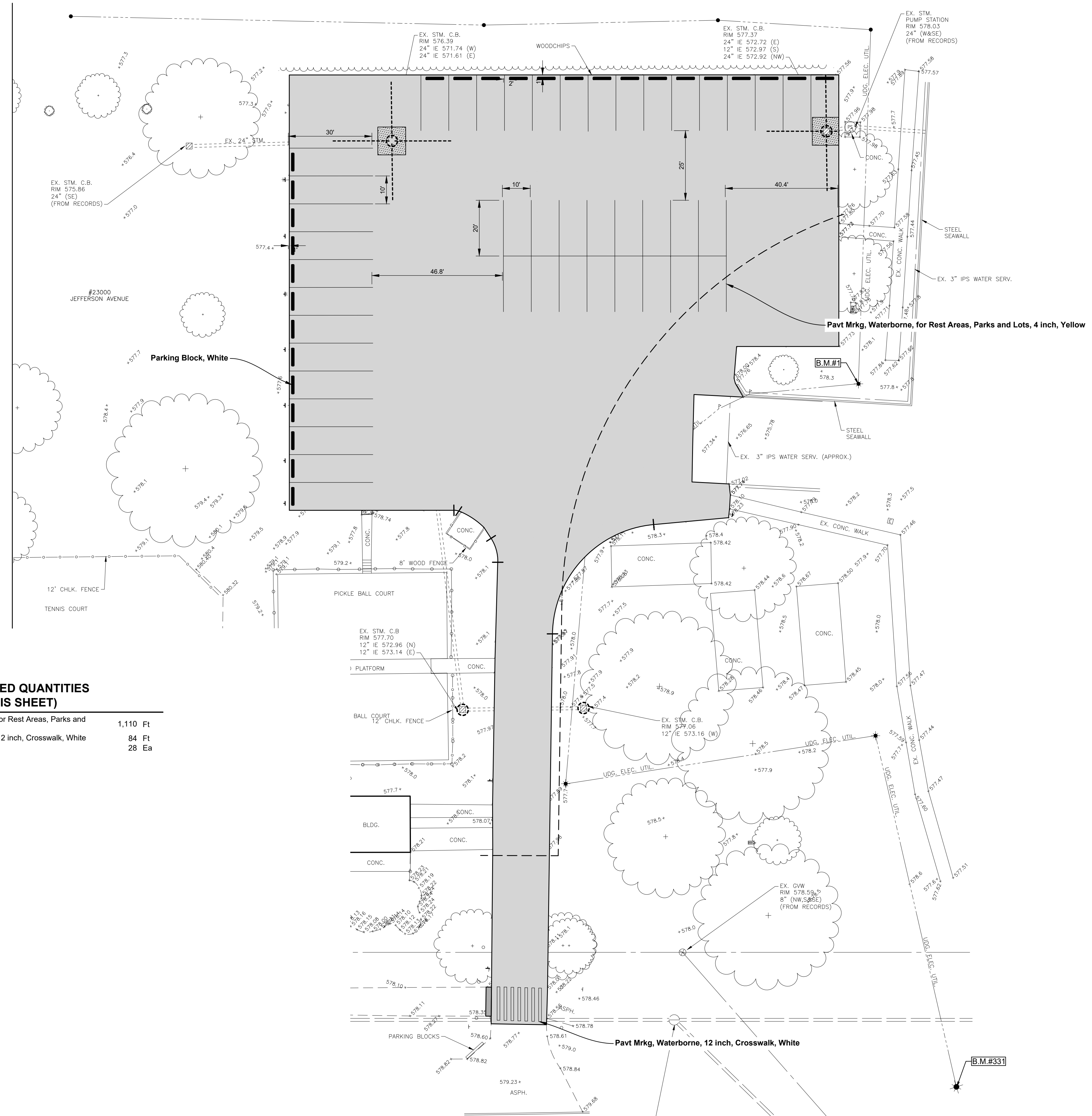
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LAUNCH, 27'± EASTERLY TO
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ELEVATION: 580.71

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CHIS 'X' ON SOUTHEAST
BOLT LIGHT POLE BASE
40'± WEST OF WEST END
PEDESTRIAN BRIDGE OVER
MILK RIVER.
ELEVATION: 583.65

BENCH MARK NO. 332
CHIS 'X' ON NORTHEAST
BOLT LIGHT POLE BASE ON
SOUTH SIDE LAKE FRONT
PARK ENTRANCE DRIVE,
300'± EAST OF JEFFERSON.
ELEVATION: 581.72

**ESTIMATED QUANTITIES
(THIS SHEET)**

Pavt Mrkg, Waterborne, for Rest Areas, Parks and	1,110 Ft
1. Lots, 4 inch, Yellow	
2. Pavt Mrkg, Waterborne, 12 inch, Crosswalk, White	84 Ft
3. Parking Block, White	28 Ea



DATE	SUBMITTALS/REVISIONS

PROJECT NAME:
**LAKE FRONT PARK
BOAT LAUNCH
PARKING LOT AND
WEDGEWOOD
RESURFACING**

SHEET TITLE:
**PAVEMENT MARKING
PLAN
23000 JEFFERSON AVE.**

CLIENT:
CITY GROSSE POINTE WOODS

<input checked="" type="checkbox"/> PRELIMINARY	<input checked="" type="checkbox"/> CONSTRUCTION	<input type="checkbox"/> RECORD
DRAWN BY: JPB	CHECKED BY: RTW	DATE: DECEMBER 2024
SCALE: 1" = 20' HORIZ.		
0 10 20 40		



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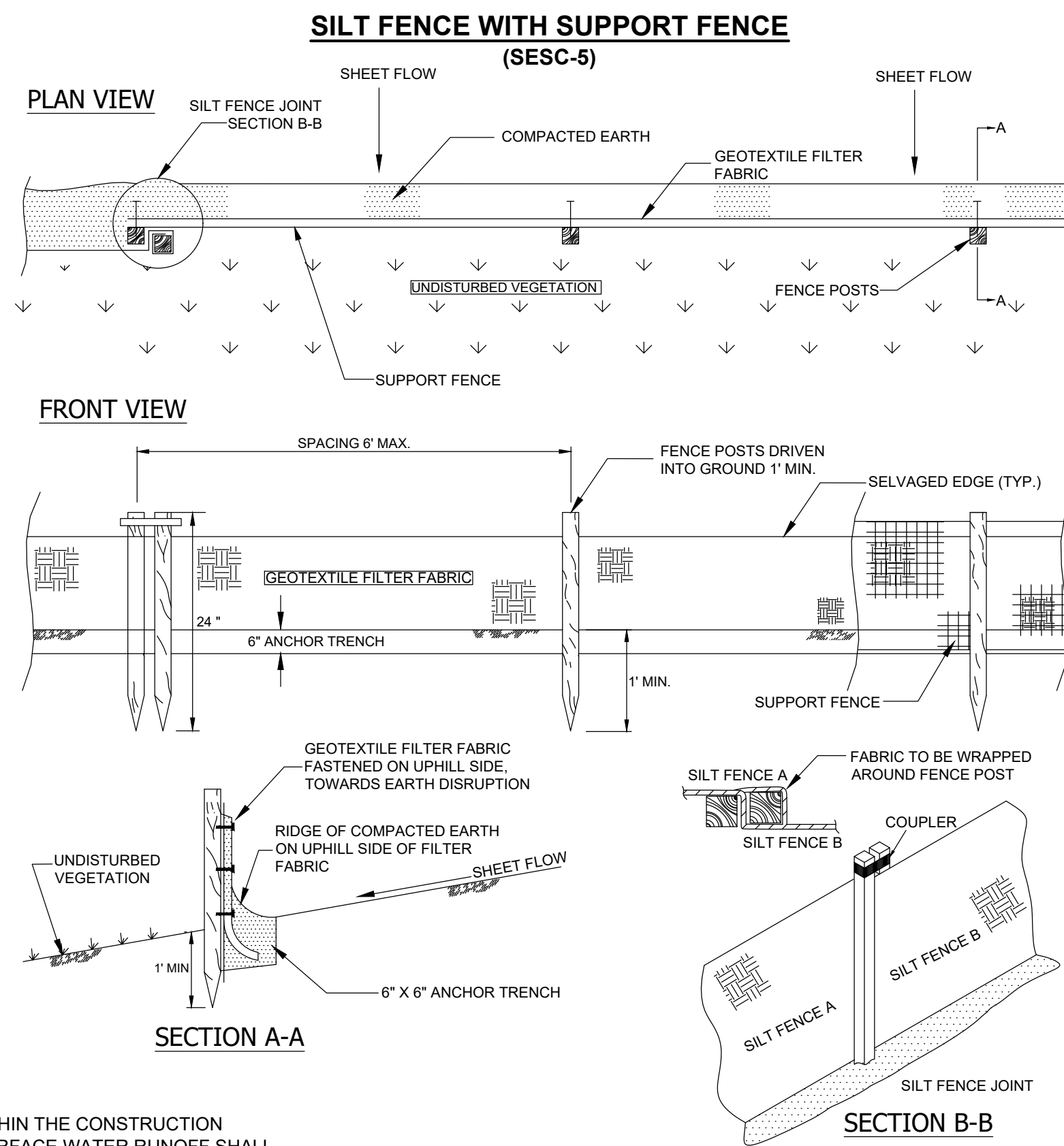
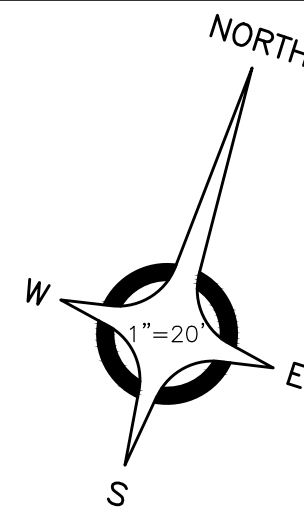
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PROJECT NO. 0160-0480

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SHEET NO.



SOIL EROSION AND SEDIMENTATION CONTROL PLAN

AT THE START OF CONSTRUCTION, EACH CATCH BASIN WITHIN THE CONSTRUCTION INFLUENCE AREA THAT MAY BE SUBJECT TO RECEIVING SURFACE WATER RUNOFF SHALL HAVE AN INLET FILTER INSTALLED THEREIN. THE PURPOSE OF THESE FILTERS IS TO POSITIVELY PREVENT CONSTRUCTION GENERATED SILT AND SEDIMENT FROM REACHING ENCLOSED SEWERS AND/OR DRAINS. EACH INLET FILTER SHALL BE PERIODICALLY INSPECTED FOR SEDIMENT ACCUMULATION AND IF NECESSARY SHALL BE REMOVED, THOROUGHLY CLEANED AND PROMPTLY REPLACED. THE WORK OF INSPECTING AND MAINTAINING ALL INLET FILTERS SHALL BE PERFORMED ON A REGULAR BASIS THROUGHOUT THE DURATION OF THIS PROJECT. ONCE THE INLET FILTERS HAVE BEEN INSTALLED, THEY SHALL BE MAINTAINED IN AN OPERATIVE STATE UNTIL SUCH TIME THAT THEY ARE NO LONGER REQUIRED FOR SOIL EROSION AND SEDIMENTATION CONTROL.

PARCEL I.D. NUMBER: 14-35-327-013

DESCRIPTION AND LIMITS OF EARTH CHANGES

THE PROJECT CONSISTS OF EARTHWORK, AGGREGATE BASE, HMA PAVEMENT AND OTHER MISCELLANEOUS RELATED ITEMS OF WORK. ALL WORK RELATED TO CHANGES IN THE EARTH GRADE UNDER THIS CONTRACT WILL BE CONFINED WITHIN THE PROPERTY LINES.

NOTE

THIS PROJECT SHALL BE CONSTRUCTED IN COMPLIANCE WITH PART 91 OF ACT 451 OF 1994, AS AMENDED. THE SOIL EROSION AND SEDIMENT CONTROL ACT.

THE TOTAL DISTURBED ACREAGE OF EARTHEN SURFACE EQUALS: 0.05 ACRES

This project shall be constructed in compliance with part 91 of Act 451 of 1994, as amended, the Soil Erosion and Sedimentation Control Act and the Macomb County Soil Erosion and Sedimentation Control Ordinance.

All erosion and sedimentation control work shall conform to the standards and specifications of the Macomb County Public Works Office.

Erosion and any sedimentation from work on this site shall be contained on the site and not allowed to collect on any off site areas or in waterways. Waterways include both natural and man-made open ditches, streams, storm drains, lakes and ponds.

Staging of the work will be done by the Contractor as directed in these plans, and as required to ensure progressive stabilization of disturbed earth change.

The Contractor shall be responsible for installation and maintenance of soil erosion and sedimentation control devices.

The Contractor shall implement and maintain the soil erosion control measures as shown on the plans before, and at all times during construction on this project. Any modifications or additions to soil erosion control measures due to construction or changed conditions shall be compiled with as required or directed by the Macomb County Public Works Office.

If any of the SESC measures on the site are deemed inadequate or ineffective, the Macomb County Public Works Office SESC Divisions has the right to require additional SESC measures at the expense of the landowner.

Install inlet filters on all pavement catch basins per detail.

- A. Inlet filters shall be inspected weekly under normal conditions, within 24 hours of a rainfall and daily during a prolonged rain event.
- B. Buildup of sediment and debris shall be removed promptly.
- C. If fabric decomposes or becomes ineffective prior to the end of its expected usable life and the barrier is still required, the fabric shall be replaced promptly.

All stockpiled soils shall be maintained in such a way as to prevent erosion from leaving the site. If the stockpile will be on site for more than 30 days, then the stockpile must be seeded. Silt fence must be installed around the perimeter of the stockpile.

All dirt tracked onto any roadway shall be removed immediately.

During dry periods, all disturbed areas shall be watered for dust control.

Permanent soil erosion control measures for all slopes, channels, ditches, or any disturbed land area shall be completed within 5 calendar days after final grading or the final earth change has been completed. When it is not possible to permanently stabilize a disturbed area after earth change activity ceases, temporary soil erosion control measures shall be implemented immediately. All temporary soil erosion control measures shall be maintained until permanent soil erosion control measures are implemented. All permanent soil erosion control measures will be implemented and established before a certificate of compliance is issued.

Remove all temporary soil erosion devices after permanent stabilization is established.

Soil types: ZfsuaA

Name of nearest watercourse: Lake Saint Clair

Distance to nearest watercourse in feet: Onsite

BENCH MARKS (NAVD88 DATUM)

BENCH MARK NO. 1
CHIS 'X' ON SOUTHEAST BOLT LIGHT POLE BASE ON EAST SIDE OF BOAT LAUNCH. 27'± EASTERLY TO DORMANT BARBEQUE GRILL. 18'± SOUTHERLY TO ELECTRIC PEDESTAL FOR BOAT.
ELEVATION: 580.71

BENCH MARK NO. 331
CHIS 'X' ON NORTHEAST BOLT LIGHT POLE BASE 40'± WEST OF WEST END PEDESTRIAN BRIDGE OVER MILK RIVER.
ELEVATION: 583.65

BENCH MARK NO. 332
CHIS 'X' ON NORTHWEST BOLT LIGHT POLE BASE ON SOUTH SIDE LAKE FRONT PARK ENTRANCE DRIVE, 300'± EAST OF JEFFERSON.
ELEVATION: 581.72

NOTES:

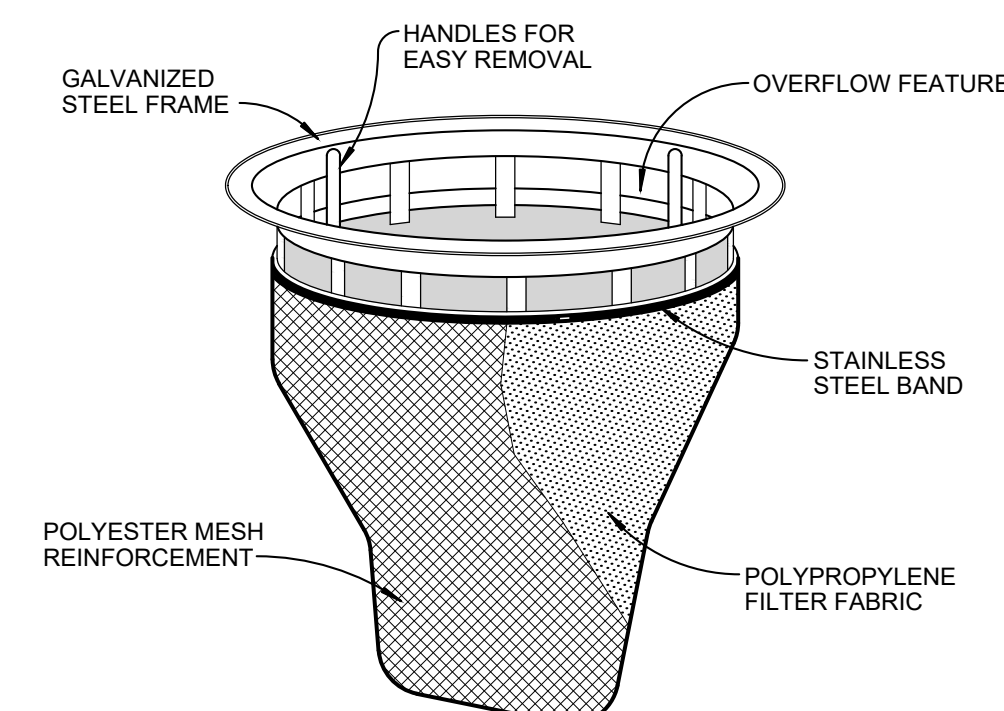
- THIS PROJECT SHALL BE CONSTRUCTED IN COMPLIANCE WITH PART 91 OF ACT 451 OF 1994, AS AMENDED. "THE SOIL EROSION AND SEDIMENT CONTROL ACT"
- GROSS ACREAGE DISTURBED IS 0.80 ACRES.
- NO WETLANDS WITHIN CONSTRUCTION AREA
- PHYSICAL LIMITS OF EARTH DISTURBANCE SHALL REMAIN WITH THE ROAD RIGHT OF WAYS.

ESTIMATED QUANTITIES (THIS SHEET)

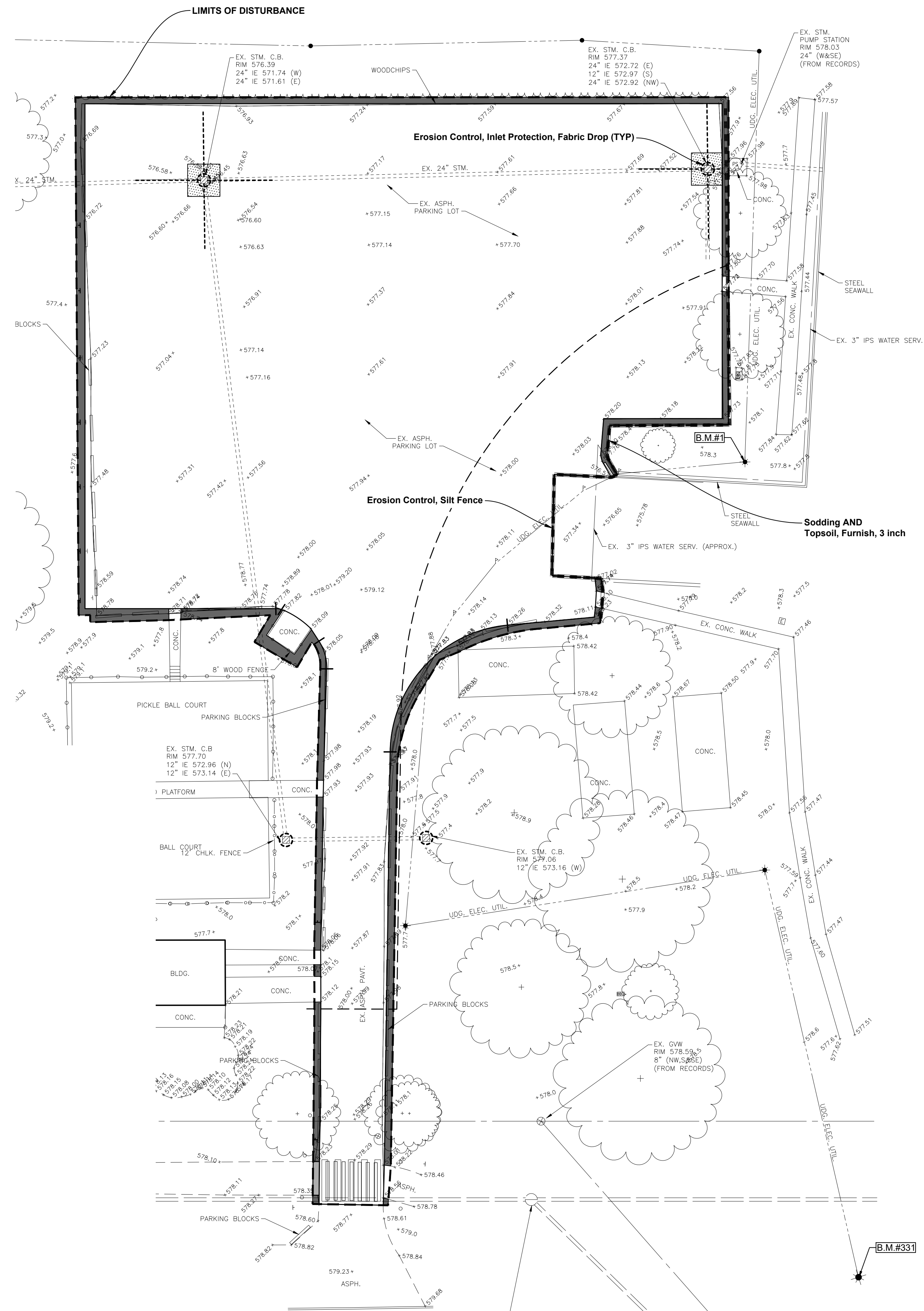
1. Erosion Control, Silt Fence	235 Ft
2. Erosion Control, Inlet Protection, Fabric Drop	4 Ea
3. Embankment, CIP	12 Cyd
4. Sodding	224 Syd
5. Topsoil, Furnish, 3 inch	224 Syd

LEGEND

- ☐ CATCH BASIN
- ⊙ MANHOLE
- ⊙ Erosion Control, Inlet Protection, Fabric Drop
- Erosion Control, Silt Fence
- - - LIMITS OF DISTURBANCE
- Sodding AND Topsoil, Furnish, 3 inch



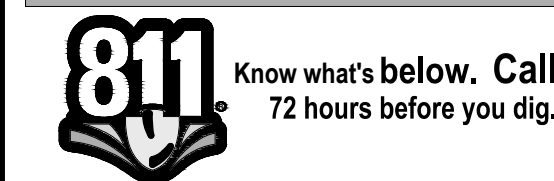
EROSION CONTROL, INLET PROTECTION, FABRIC DROP
NOT TO SCALE



DATE	SUBMITTALS/REVISIONS
PROJECT NAME:	LAKE FRONT PARK BOAT LAUNCH PARKING LOT AND WEDGEWOOD RESURFACING
SHEET TITLE:	SOIL EROSION 23000 JEFFERSON AVE.

CLIENT:
CITY GROSSE POINTE WOODS

PRELIMINARY	CONSTRUCTION	RECORD
DRAWN BY: JPB	CHECKED BY: RTW	DATE: DECEMBER 2024
SCALE: 1" = 20' HORIZ.		
0 10 20 40		



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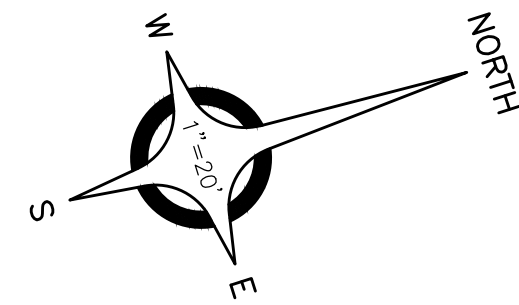
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PROJECT NO. 0160-0480

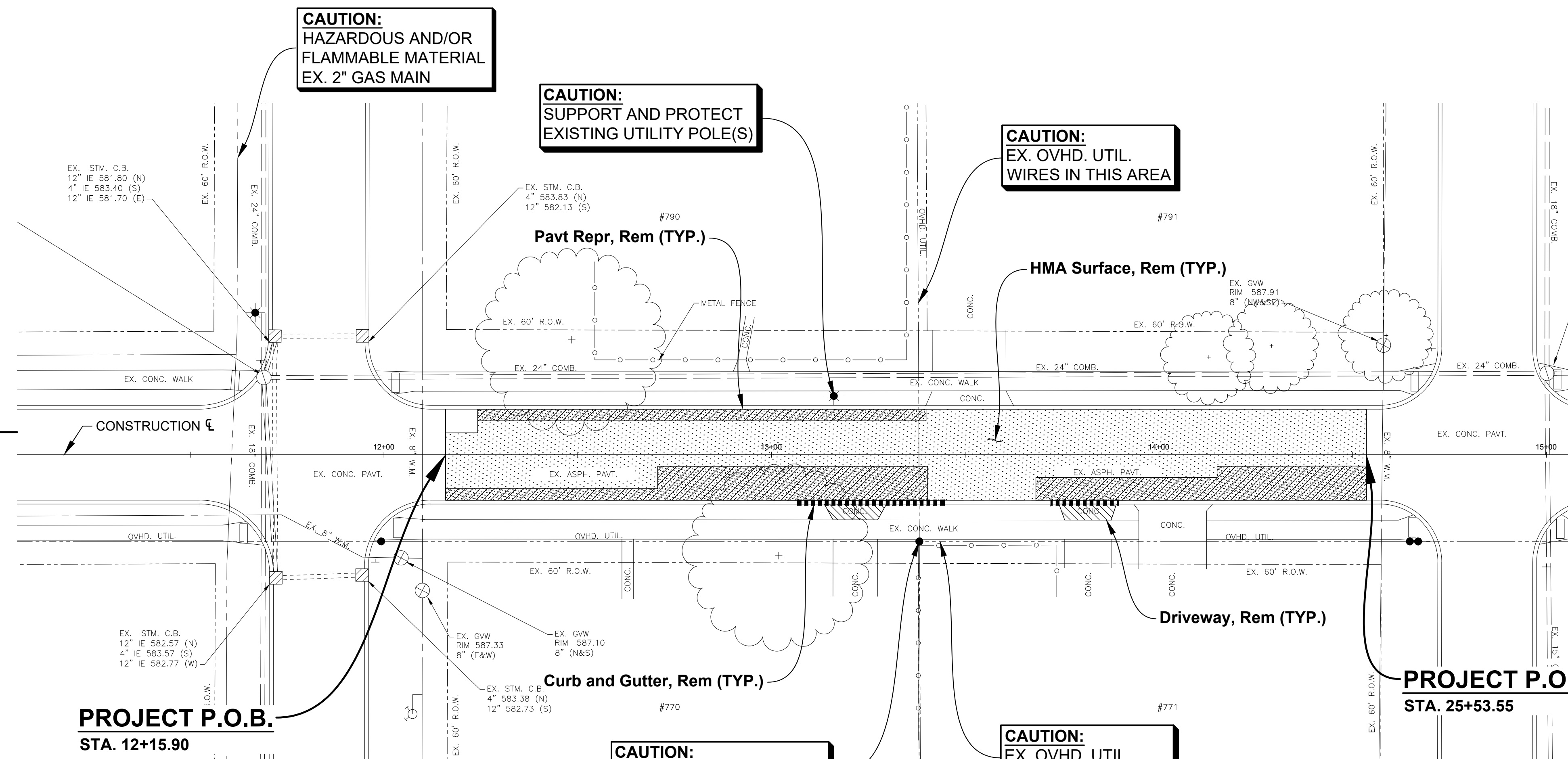
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SHEET NO.



NOTES:

- NO ATTEMPT IS MADE TO STIPULATE EVERY REQUIRED ITEM OF REMOVAL AND DEMOLITION EITHER ON DRAWINGS OR IN SPECIFICATIONS. VISIT THE SITE AND STUDY EXISTING PHYSICAL CONDITIONS, REVIEW DRAWINGS, AND REACH CONCLUSIONS ON WORK NECESSARY TO ACCOMPLISH INTENDED RESULTS DESCRIBED BY THE PROJECT DOCUMENTS.
- ALL DEMOLITION WORK SHALL CONFORM TO GOVERNING AGENCY DESIGN STANDARDS AND SPECIFICATIONS, COMPLY WITH OSHA REGULATIONS INsofar AS THEY APPLY TO THE REQUIRED WORK.
- SOIL EROSION AND SILTATION CONTROL MEASURES MUST BE IN PLACE PRIOR TO STARTING REMOVALS AND EARTH MOVING OPERATIONS. THESE CONTROL MEASURES SHALL CONFORM IN ALL RESPECTS TO GOVERNING AGENCY REQUIREMENTS.
- PROVIDE A DESIGNATED AREA (TO BE APPROVED BY OWNER) FOR STORAGE OF MATERIALS, EQUIPMENT AND PARKING OF THE REQUIRED EQUIPMENT. DESIGNATE A TRAFFIC LANE FOR INGRESS AND EGRESS FROM THE WORK AREA. IF REQUIRED, PROVIDE FLAG MEN FOR A SAFE AND EFFICIENT MOVEMENT OF VEHICLES. NO CHANGES TO THE WORK AREA OR TO THE AGREED TRAFFIC PATTERN SHALL BE MADE WITHOUT PRIOR APPROVAL OF THE OWNER CONSTRUCTION MANAGER. THE CONSTRUCTION MANAGER WILL SECURE THE APPROVAL FOR SUCH CHANGES.
- COMPLETELY RESTORE ALL DISTURBED AREAS TO A CONDITION EQUAL TO OR BETTER THAN EXISTING CONDITION AND TO THE SATISFACTION OF THE OWNER AND MUNICIPALITY. ALL COSTS FOR CLEAN-UP, RESTORATION WORK AND OTHER IMMEDIATE OPERATIONS SUCH AS, BUT NOT LIMITED TO, CONSTRUCTION SIGNAGE, STREET SWEEPING, AND MAINTAINING EXISTING UTILITIES SHALL BE THE CONTRACTORS RESPONSIBILITY. PERFORM RESTORATION WORK WITHIN 5 DAYS AFTER COMPLETION OF FINAL GRADING.
- WHERE EXISTING PAVEMENT IS TO BE PARTIALLY REMOVED, SAWCUT PAVEMENT FULL DEPTH TO PROVIDE A SMOOTH JOINT WITH PROPOSED PAVEMENT.
- REMOVE ALL EXISTING UTILITY PIPING SERVICES WITHIN THE DESIGNATED WORK AREA UNLESS OTHERWISE INDICATED ON THE PLANS. DISCONNECT FROM PUBLIC UTILITIES IN ACCORDANCE WITH UTILITY OWNER'S REQUIREMENTS.
- PROMPTLY REMOVE ALL DEMOLITIONS, REMOVALS, RUBBISH, AND DEBRIS FROM THE LIMITS OF THE OWNER'S PROPERTY AND DISPOSE IN A LEGAL MANNER.
- EXCAVATIONS AND HAZARDOUS AREAS SHALL BE PROTECTED BY BARRICADES. BARRICADES LEFT IN PLACE AT NIGHT SHALL BE LIGHTED.
- RESTORE AT CONTRACTOR'S EXPENSE ANY STRUCTURES, PIPE, UTILITY, PAVEMENT, CURBS, SIDEWALKS, LANDSCAPED AREAS, ETC. WITHIN THE SITE OR ADJOINING PROPERTIES DISTURBED DURING DEMOLITION OR CONSTRUCTION TO THEIR ORIGINAL CONDITION OR BETTER, AND TO THE SATISFACTION OF THE OWNER AND LOCAL MUNICIPALITY. ALL WORK WITHIN A D.O.T. RIGHT-OF-WAY SHALL COMPLY WITH ALL D.O.T. STANDARDS.
- THE WORK INCLUDED SHALL BE PERFORMED AS INDICATED ON THE PLANS. STOCKPILING, STORAGE OF MATERIALS AND ACCESS TO THE SITE SHALL BE COORDINATED WITH THE OWNER.
- PRESERVE ALL SURVEY STAKES AND PROPERTY LINE MONUMENTS. ANY STAKES OR MONUMENTS DESTROYED OR DISTURBED IN THE COURSE OF WORK SHALL BE RESTORED OR REPLACED AT THE CONTRACTOR'S EXPENSE.
- ALL EXCAVATION IS CONSIDERED UNCLASSIFIED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MEANS, METHODS, AND MATERIALS OF CONSTRUCTION TO COMPLETE CONSTRUCTION AS DESIGNED. ADDITIONALLY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE OFF-SITE DISPOSAL OF ANY AND ALL EXCESS OR UNSUITABLE MATERIAL AND THE IMPORTATION OF ANY BORROW MATERIAL NECESSARY TO COMPLETE THE JOB.
- OWNER RESERVES THE RIGHT TO SALVAGE EXISTING MATERIALS. COORDINATE DISPOSAL OF MATERIALS WITH OWNER.
- BACKFILL TRENCHES RESULTING FROM UNDERGROUND UTILITY REMOVAL WITH CL-II SAND COMPACTED TO 95% MAX. UNIT WEIGHT.



PROJECT P.O.B.
 STA. 12+15.90

PROJECT P.O.B.
 STA. 25+53.55

ESTIMATED QUANTITIES (THIS SHEET)

1. Curb and Gutter, Rem	56 Ft
2. Driveway, Rem	12 Syd
3. HMA Surface, Rem	615 Syd
4. Pavt Repr, Rem	192 Syd

LEGEND

- Driveway, Rem
- HMA Surface, Rem
- Pavt Repr, Rem

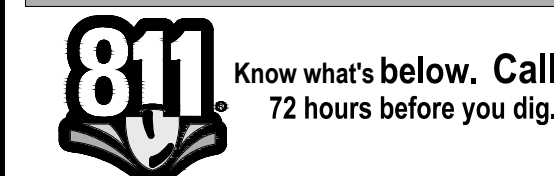
DATE	SUBMITTALS/REVISIONS

LAKE FRONT PARK BOAT LAUNCH PARKING LOT AND WEDGEWOOD RESURFACING

REMOVAL PLAN
 STA. 12+15.90 TO STA. 25+53.55

CLIENT: CITY GROSSE POINTE WOODS

<input type="checkbox"/> PRELIMINARY	<input checked="" type="checkbox"/> CONSTRUCTION	<input type="checkbox"/> RECORD
DRAWN BY: JPB	CHECKED BY: RTW	DATE: DECEMBER 2024
SCALE: 1" = 20' HORIZ.		
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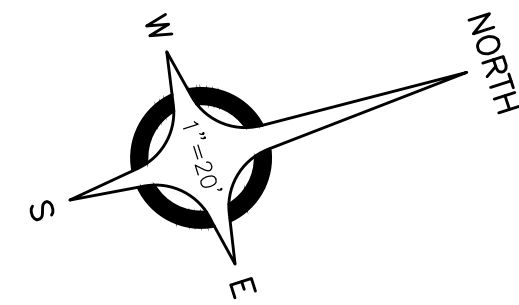
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PROJECT NO. 0160-0480

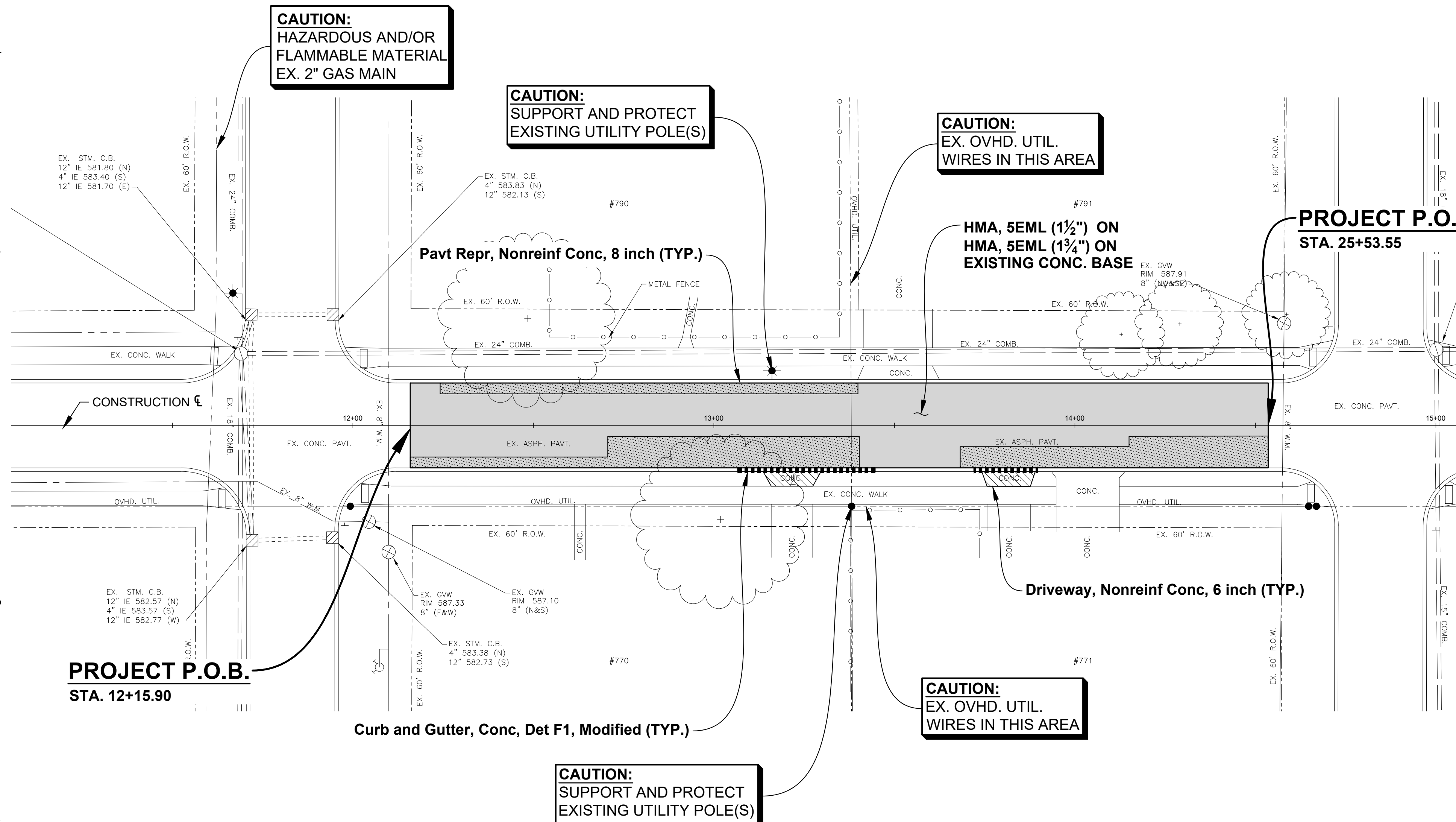
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SHEET NO.



GENERAL CONSTRUCTION NOTES:

- THE CONTRACTOR AT ALL TIMES SHALL FOLLOW ALL FEDERAL, STATE AND LOCAL SAFETY REQUIREMENTS DURING CONSTRUCTION OF THIS PROJECT. SPECIAL CARE SHALL BE TAKEN DURING ALL TRENCHING OPERATIONS. SHEETING AND BRACING, CRIBBING, ETC., MUST BE INSTALLED AS REQUIRED TO PROVIDE MAXIMUM SAFETY TO THE CONTRACTOR'S WORKERS IN FULL COMPLIANCE WITH OSHA REGULATIONS.
- ALL CONSTRUCTION SHALL BE CONDUCTED SUCH THAT THERE WILL BE MINIMAL INTERFERENCE WITH STREETS, DRIVES OR WALKS. THE CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE OF TRAFFIC. DO NOT CLOSE OR OBSTRUCT STREETS, DRIVES OR WALKS OR USER FACILITIES WITHOUT PERMISSION FROM THE OWNER'S REPRESENTATIVE.
- CONTRACTOR SHALL KEEP EXISTING STREETS, ROADS AND DRIVES CLEAR OF DIRT, DEBRIS AND EQUIPMENT.
- CONTRACTOR SHALL BE RESPONSIBLE FOR SHORING AND FOR DEWATERING TO ACCOMPLISH ALL WORK INDICATED ON PLANS AND TO PERFORM REQUIRED COMPACTION OPERATIONS.
- REVIEW CONSTRUCTION AND PROVIDE TRAFFIC SEQUENCE AND SCHEDULE AT THE PRECONSTRUCTION MEETING WITH OWNER.
- THE CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS IN THE FIELD AND CONTACT THE ENGINEER IF THERE ARE ANY QUESTIONS OR CONFLICTS REGARDING THE CONSTRUCTION DOCUMENTS AND/OR FIELD CONDITIONS SO THAT APPROPRIATE REVISIONS CAN BE MADE PRIOR TO CONSTRUCTION. ANY CONFLICT BETWEEN DRAWINGS AND THE SPECIFICATIONS SHALL BE CONFIRMED WITH THE ENGINEER PRIOR TO BIDDING.
- THE CONTRACTOR SHALL ABIDE BY ALL OSHA, FEDERAL, STATE AND LOCAL REGULATIONS WHEN OPERATING CRANES, BOOMS, HOISTS, ETC. IN CLOSE PROXIMITY TO OVERHEAD ELECTRIC LINES. IF CONTRACTOR MUST OPERATE EQUIPMENT CLOSE TO ELECTRIC LINES, CONTACT THE POWER COMPANY TO MAKE ARRANGEMENTS FOR PROPER SAFEGUARDS.
- THE OWNER AT ITS DISCRETION RESERVES THE RIGHT TO MODIFY THE DETAILS AND STANDARDS OF CONSTRUCTION FOR ALL PRIVATE FACILITIES FROM THAT INDICATED ON THE APPROVED PLAN. PROVIDED THAT THE ALTERNATE STANDARD COMPLIES WITH LOCAL CODE AND/OR UTILITY COMPANY REQUIREMENTS AND THE GENERAL DESIGN INTENT OF THE PROJECT IS NOT COMPROMISED.
- CONTRACTOR SHALL MAINTAIN ALL TRAFFIC LANES AND PEDESTRIAN WALKWAYS AT ALL TIMES UNLESS WRITTEN APPROVAL FROM THE STATE DOT, LOCAL MUNICIPALITY, COUNTY, OR OTHER GOVERNING AUTHORITY IS RECEIVED.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER SHOULD ANY DISCREPANCY REGARDING THE PROPOSED WORK OR UNFORESEEN CONDITIONS ARISE PRIOR TO PROCEEDING FURTHER WITH THE AFFECTED WORK.
- THE CONTRACTOR SHALL PROVIDE AS-BUILT RECORDS OF ALL CONSTRUCTION (INCLUDING UNDERGROUND UTILITIES) TO THE ENGINEER AND OWNER FOLLOWING COMPLETION OF CONSTRUCTION ACTIVITIES.
- ALL PAVING AND AGGREGATE MATERIALS AND WORK COMPLETED SHALL BE IN STRICT ACCORDANCE WITH THE STATE DOT SPECIFICATIONS AND STANDARD DETAILS UNLESS OTHERWISE SPECIFIED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS FOR BUILDING, WALLS, CONCRETE SLABS, AND UTILITY SERVICE POINT CONNECTIONS AND NOTIFYING THE OWNER AND ENGINEER OF ANY CONFLICTS OR DISCREPANCIES PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF ALL PRODUCTS AND MATERIALS TO THE OWNER AND LOCAL UTILITY COMPANIES AS REQUIRED FOR REVIEW AND APPROVAL PRIOR TO FABRICATION OR DELIVERY TO THE SITE. ALLOW A MINIMUM OF 7 DAYS FOR REVIEW.
- THE CONTRACTOR SHALL REFERENCE ARCHITECTURAL PLANS FOR EXACT DIMENSIONS AND CONSTRUCTION DETAILS OF BUILDING, CANOPY, AND UTILITY CONNECTIONS.
- TRAFFIC CONTROL SIGNAGE SHALL CONFORM TO THE STATE DOT STANDARD DETAIL SHEETS AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. SIGNS SHALL BE INSTALLED PLUMB.
- FIRE LANES SHALL BE ESTABLISHED AND PROPERLY DESIGNATED IN ACCORDANCE WITH THE LOCAL MUNICIPALITY AND LOCAL FIRE DEPARTMENT REQUIREMENTS.
- THE CONTRACTOR SHALL REMOVE CONFLICTING PAVEMENT MARKINGS IN A METHOD APPROVED BY THE STATE DOT.
- AGGREGATES AND BITUMINOUS PAVEMENT MATERIAL AND INSTALLATION SPECIFICATIONS SHALL BE IN ACCORDANCE WITH STATE DOT SPECS. THE CONTRACTOR SHALL SUBMIT AGGREGATE SIEVE ANALYSIS AND A JOB-MIX FORMULA FOR THE BITUMINOUS PAVEMENT TO THE CONSTRUCTION MANAGER FOR REVIEW AND APPROVAL AT LEAST 14 DAYS PRIOR TO THE PLACEMENT OF BITUMINOUS PAVEMENTS.
- ALTERNATIVE METHODS AND PRODUCTS OTHER THAN THOSE SPECIFIED MAY BE USED IF REVIEWED AND APPROVED BY THE OWNER, ENGINEER, AND APPROPRIATE REGULATORY AGENCIES PRIOR TO INSTALLATION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION LAYOUTS AND SURVEYS REQUIRED TO PERFORM CONSTRUCTION. CADD FILE INFORMATION IS PROVIDED FOR REFERENCE ONLY.
- PROVIDE ADEQUATE BARRICADES AT DRIVES, ENTRANCES, EXCAVATIONS AND OTHER OPENINGS TO KEEP OUT UNAUTHORIZED PERSONS AND FOR PUBLIC SAFETY AND TRAFFIC CONTROL. SAFETY PROVISIONS OF APPLICABLE LAWS SHALL BE OBSERVED AT ALL TIMES. BARRICADES LEFT IN PLACE AT NIGHT SHALL BE LIGHTED.
- NO EQUIPMENT OR MATERIAL STORAGE IS PERMITTED WITHIN THE ROAD RIGHT-OF-WAY.
- CONTRACTOR'S MANNER AND METHOD OF INGRESS AND EGRESS WITH RESPECT TO THE PROJECT AREA SHALL IN NO WAY PROHIBIT OR DISTURB NORMAL PEDESTRIAN OR VEHICULAR TRAFFIC IN THE VICINITY AND IS SUBJECT TO REGULATION AND WRITTEN APPROVAL OF APPROPRIATE GOVERNING AGENCIES.
- CONSTRUCTION SHALL BE IN ACCORDANCE WITH A.D.A. REGULATIONS AS APPLICABLE.



PROJECT P.O.B.
 STA. 12+15.90

PROJECT P.O.B.
 STA. 25+53.55

CAUTION:
 HAZARDOUS AND/OR
 FLAMMABLE MATERIAL
 EX. 2" GAS MAIN

CAUTION:
 SUPPORT AND PROTECT
 EXISTING UTILITY POLE(S)

CAUTION:
 EX. OVHD. UTIL.
 WIRES IN THIS AREA

CAUTION:
 EX. OVHD. UTIL.
 WIRES IN THIS AREA

CAUTION:
 SUPPORT AND PROTECT
 EXISTING UTILITY POLE(S)

**ESTIMATED QUANTITIES
 (THIS SHEET)**

1. HMA, 5EML	110 Ton
2. Pavt Repr, Nonreinf Conc, 8 inch	192 Syd
3. Driveway, Nonreinf Conc, 6 inch	12 Syd
4. Curb and Gutter, Conc, Det F1, Modified	56 Ft

LEGEND

- HMA, 5EML (@ 165 LB. / SYD) ON HMA, 5EML (@ 192.5 LB. / SYD) ON EXISTING CONC. BASE
- Driveway, Nonreinf Conc, 6 inch
- Pavt Repr, Nonreinf Conc, 8 inch

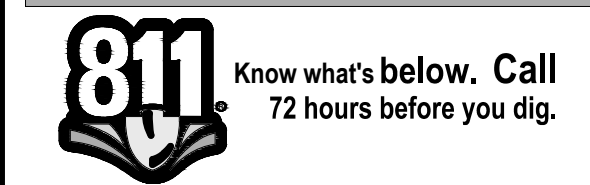
DATE	SUBMITTALS/REVISIONS

PROJECT NAME:
**LAKE FRONT PARK
 BOAT LAUNCH
 PARKING LOT AND
 WEDGEWOOD
 RESURFACING**

**CONSTRUCTION
 PLAN**

CLIENT:
 CITY GROSE POINTE WOODS

<input checked="" type="checkbox"/> PRELIMINARY	<input type="checkbox"/> CONSTRUCTION	<input type="checkbox"/> RECORD
DRAWN BY: JPB	CHECKED BY: RTW	DATE: DECEMBER 2024
SCALE: 1" = 20' HORIZ.		
0 10 20 40		



UTILITY INFORMATION, AS SHOWN, INDICATES APPROXIMATE LOCATIONS AND TYPES OF EXISTING UTILITIES ONLY. AS DISCLOSED BY RECORDS PROVIDED TO THIS FIRM FROM THE VARIOUS UTILITY COMPANIES. NO GUARANTEE IS GIVEN OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF.

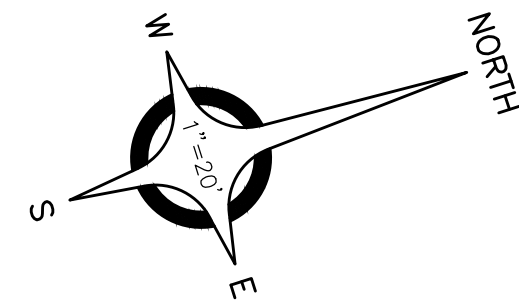
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PROJECT NO. 0160-0480

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SHEET NO.



SOIL EROSION AND SEDIMENTATION CONTROL PLAN

AT THE START OF CONSTRUCTION, EACH CATCH BASIN WITHIN THE CONSTRUCTION INFLUENCE AREA THAT MAY BE SUBJECT TO RECEIVING SURFACE WATER RUNOFF SHALL HAVE AN INLET FILTER INSTALLED THEREIN. THE PURPOSE OF THESE FILTERS IS TO POSITIVELY PREVENT CONSTRUCTION GENERATED SILT AND SEDIMENT FROM REACHING ENCLOSED SEWERS AND/OR DRAINS. EACH INLET FILTER SHALL BE PERIODICALLY INSPECTED FOR SEDIMENT ACCUMULATION AND IF NECESSARY SHALL BE REMOVED, THOROUGHLY CLEANED AND PROMPTLY REPLACED. THE WORK OF INSPECTING AND MAINTAINING ALL INLET FILTERS SHALL BE PERFORMED ON A REGULAR BASIS THROUGHOUT THE DURATION OF THIS PROJECT. ONCE THE INLET FILTERS HAVE BEEN INSTALLED, THEY SHALL BE MAINTAINED IN AN OPERATIVE STATE UNTIL SUCH TIME THAT THEY ARE NO LONGER REQUIRED FOR SOIL EROSION AND SEDIMENTATION CONTROL.

PARCEL I.D. NUMBER: 14-35-327-013

DESCRIPTION AND LIMITS OF EARTH CHANGES

THE PROJECT CONSISTS OF EARTHWORK, AGGREGATE BASE, HMA PAVEMENT AND OTHER MISCELLANEOUS RELATED ITEMS OF WORK. ALL WORK RELATED TO CHANGES IN THE EARTH GRADE UNDER THIS CONTRACT WILL BE CONFINED WITHIN THE PROPERTY LINES.

NOTE

THIS PROJECT SHALL BE CONSTRUCTED IN COMPLIANCE WITH PART 91 OF ACT 451 OF 1994, AS AMENDED. THE SOIL EROSION AND SEDIMENT CONTROL ACT.

THE TOTAL DISTURBED ACREAGE OF EARTHEN SURFACE EQUALS: 0.05 ACRES

This project shall be constructed in compliance with part 91 of Act 451 of 1994, as amended, the Soil Erosion and Sedimentation Control Act and the Macomb County Soil Erosion and Sedimentation Control Ordinance.

All erosion and sedimentation control work shall conform to the standards and specifications of the Macomb County Public Works Office.

Erosion and any sedimentation from work on this site shall be contained on the site and not allowed to collect on any off site areas or in waterways. Waterways include both natural and man-made open ditches, streams, storm drains, lakes and ponds.

Staging of the work will be done by the Contractor as directed in these plans, and as required to ensure progressive stabilization of disturbed earth change.

The Contractor shall be responsible for installation and maintenance of soil erosion and sedimentation control devices.

The Contractor shall implement and maintain the soil erosion control measures as shown on the plans before, and at all times during construction on this project. Any modifications or additions to soil erosion control measures due to construction or changed conditions shall be complied with as required or directed by the Macomb County Public Works Office.

If any of the SESC measures on the site are deemed inadequate or ineffective, the Macomb County Public Works Office SESC Divisions has the right to require additional SESC measures at the expense of the landowner.

- Install inlet filters on all pavement catch basins per detail.
- Inlet filters shall be inspected weekly under normal conditions, within 24 hours of a rainfall and daily during a prolonged rain event.
 - Buildup of sediment and debris shall be removed promptly.
 - If fabric decomposes or becomes ineffective prior to the end of its expected usable life and the barrier is still required, the fabric shall be replaced promptly.

All stockpiled soils shall be maintained in such a way as to prevent erosion from leaving the site. If the stockpile will be on site for more than 30 days, then the stockpile must be seeded. Silt fence must be installed around the perimeter of the stockpile.

All dirt tracked onto any roadway shall be removed immediately.

During dry periods, all disturbed areas shall be watered for dust control.

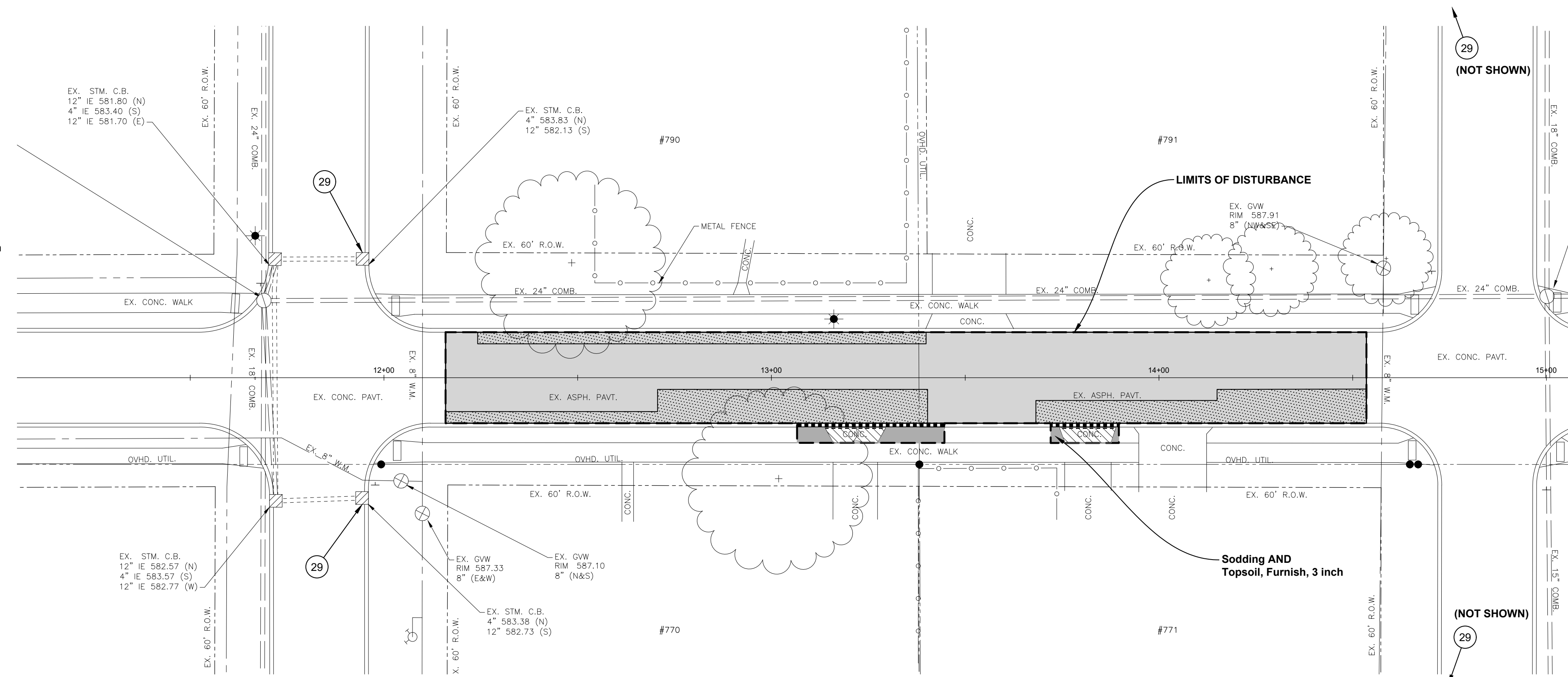
Permanent soil erosion control measures for all slopes, channels, ditches, or any disturbed land area shall be completed within 5 calendar days after final grading or the final earth change has been completed. When it is not possible to permanently stabilize a disturbed area after earth change activity ceases, temporary soil erosion control measures shall be implemented immediately. All temporary soil erosion control measures shall be maintained until permanent soil erosion control measures are implemented. All permanent soil erosion control measures will be implemented and established before a certificate of compliance is issued.

Remove all temporary soil erosion devices after permanent stabilization is established.

Soil types: LvnudB

Name of nearest watercourse: Milk River

Distance to nearest watercourse in feet: Approx. 4,700 feet northwest of work area



ESTIMATED QUANTITIES (THIS SHEET)

1. Erosion Control, Inlet Protection, Fabric Drop	4	Ea
2. Sodding	35	Syd
3. Topsoil, Furnish, 3 inch	35	Syd

SOIL EROSION CONTROL LEGEND

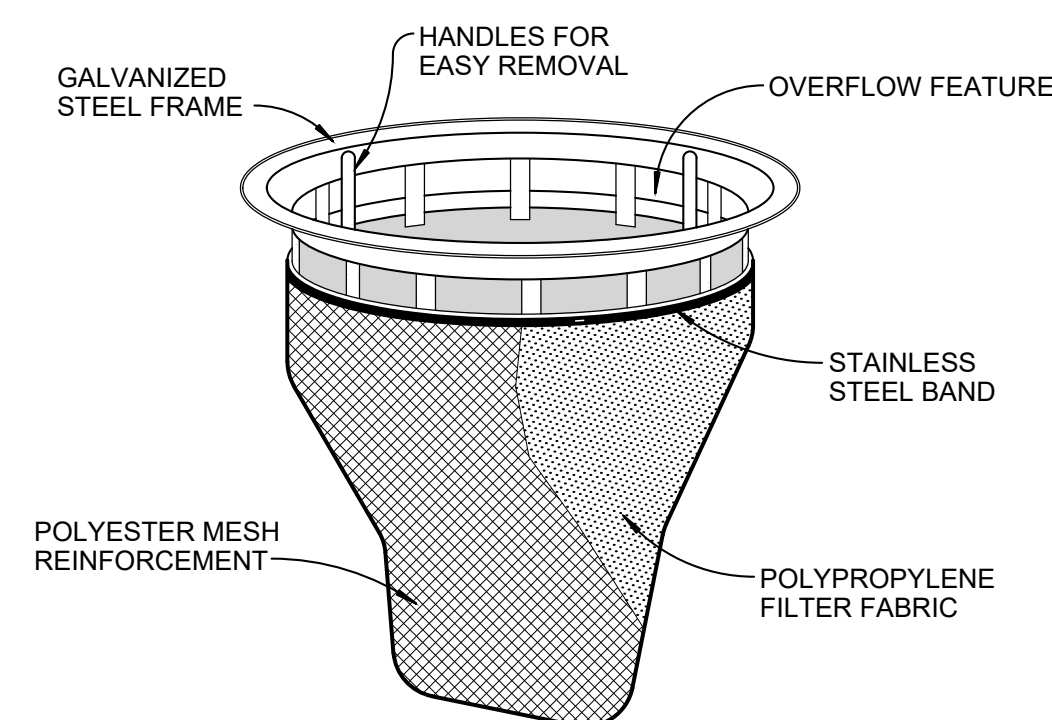
KEY #	ITEM
29	Erosion Control, Inlet Protection, Fabric Drop

LEGEND

	CATCH BASIN
	MANHOLE
	Erosion Control, Inlet Protection, Fabric Drop
	Erosion Control, Silt Fence
	LIMITS OF DISTURBANCE
	Sodding AND Topsoil, Furnish, 3 inch

NOTES:

- THIS PROJECT SHALL BE CONSTRUCTED IN COMPLIANCE WITH PART 91 OF ACT 451 OF 1994, AS AMENDED. "THE SOIL EROSION AND SEDIMENT CONTROL ACT"
- GROSS ACREAGE DISTURBED IS 0.13 ACRES.
- NO WETLANDS WITHIN CONSTRUCTION AREA
- PHYSICAL LIMITS OF EARTH DISTURBANCE SHALL REMAIN WITH THE ROAD RIGHT OF WAYS.



INLET PROTECTION, FABRIC DROP
 NOT TO SCALE

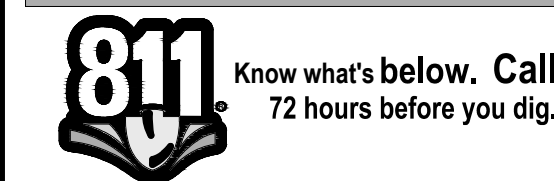
DATE	SUBMITTALS/REVISIONS

PROJECT NAME:
**LAKE FRONT PARK
 BOAT LAUNCH
 PARKING LOT AND
 WEDGEWOOD
 RESURFACING**

SHEET TITLE:
SOIL EROSION
 STA. 12+15.90 TO STA. 25+53.55

CLIENT:
 CITY GROSE POINTE WOODS

<input checked="" type="checkbox"/> PRELIMINARY	<input checked="" type="checkbox"/> CONSTRUCTION	<input type="checkbox"/> RECORD
DRAWN BY: JPB	CHECKED BY: RTW	DATE: DECEMBER 2024
SCALE: 1" = 20' HORIZ.		



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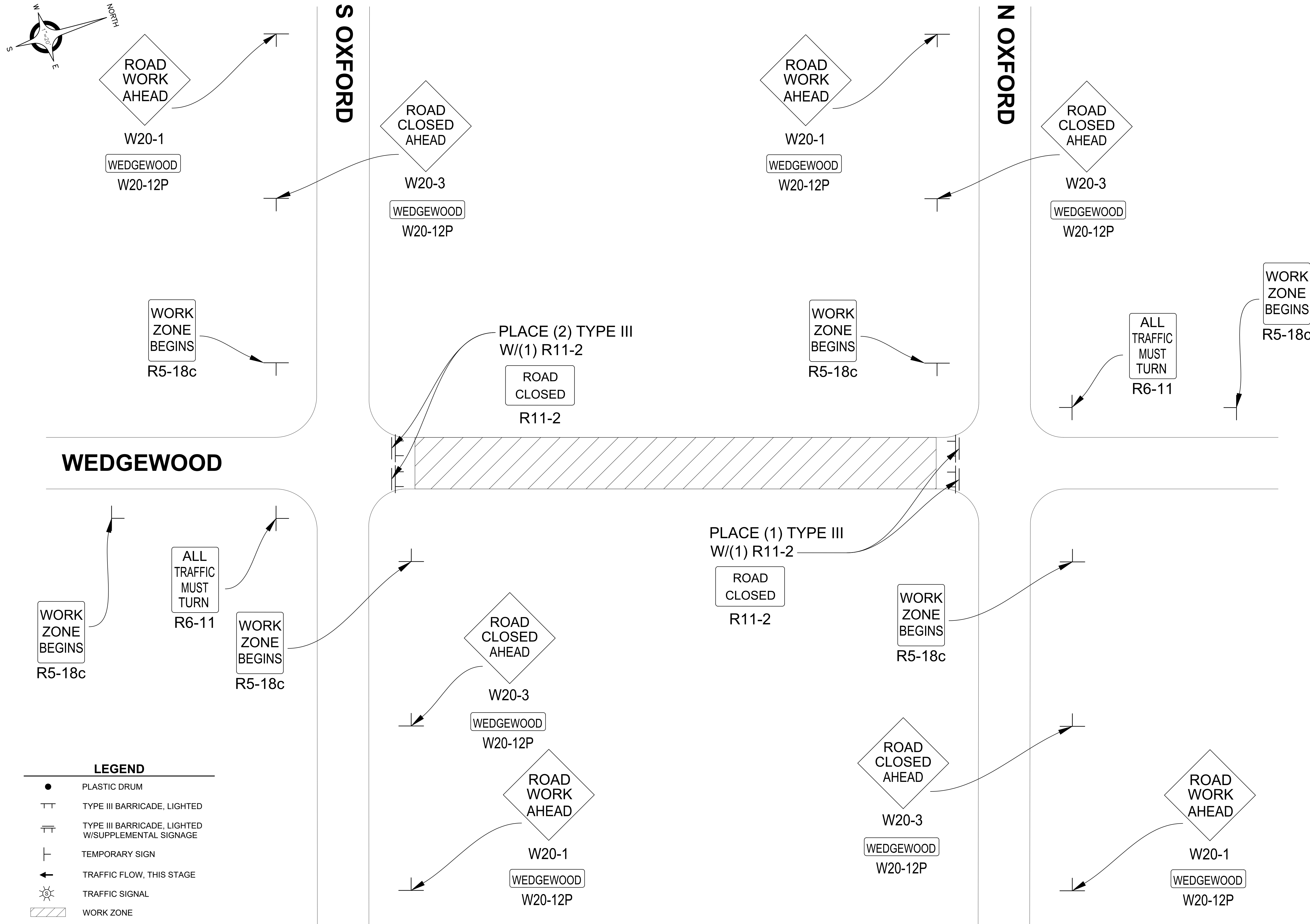
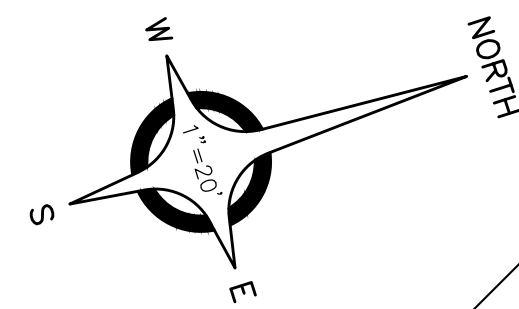
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PROJECT NO. 0160-0480

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SHEET NO.



LEGEND

- PLASTIC DRUM
- ⊥ TYPE III BARRICADE, LIGHTED
- ⊥ TYPE III BARRICADE, LIGHTED W/SUPPLEMENTAL SIGNAGE
- ⊥ TEMPORARY SIGN
- ← TRAFFIC FLOW, THIS STAGE
- ☀ TRAFFIC SIGNAL
- ▨ WORK ZONE

DATE	SUBMITTALS/REVISIONS

PROJECT NAME:
**LAKE FRONT PARK
 BOAT LAUNCH
 PARKING LOT AND
 WEDGEWOOD
 RESURFACING**

SHEET TITLE:
**MAINTAINING
 TRAFFIC
 PLAN**
 STA. 12+15.90 TO STA. 25+53.55

CLIENT:
 CITY GROSSE POINTE WOODS

<input checked="" type="checkbox"/> PRELIMINARY	<input checked="" type="checkbox"/> CONSTRUCTION	<input type="checkbox"/> RECORD
DRAWN BY: JPB	CHECKED BY: RTW	DATE: DECEMBER 2024
SCALE: 1" = 20' HORIZ. 0 10 20 40		



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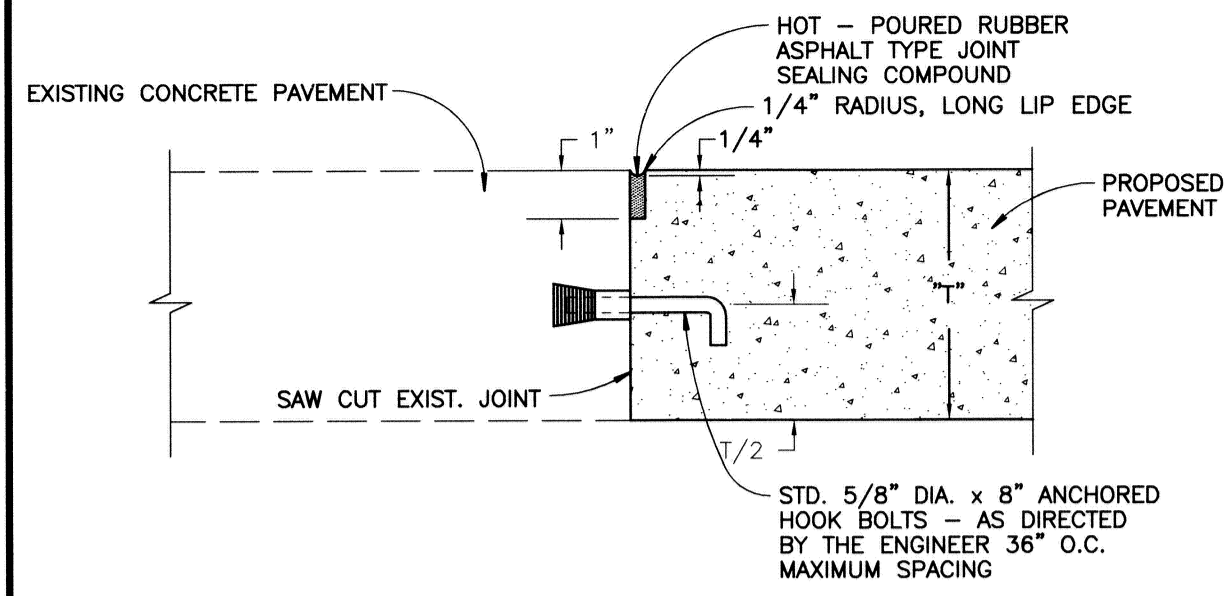
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PROJECT NO. 0160-0480

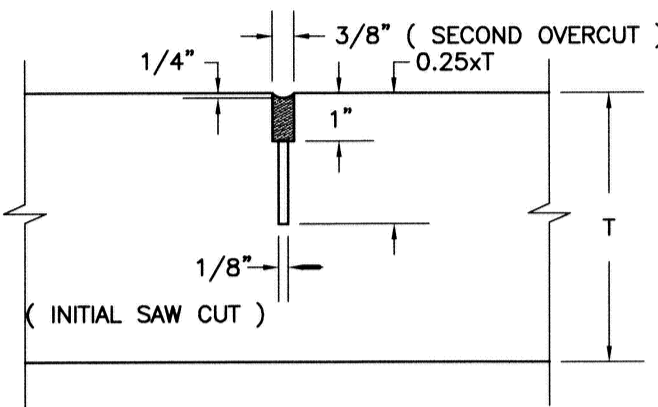
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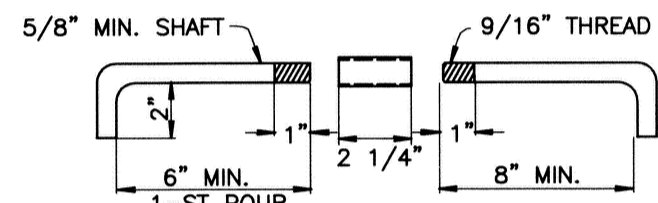


A CONSTRUCTION JOINTS

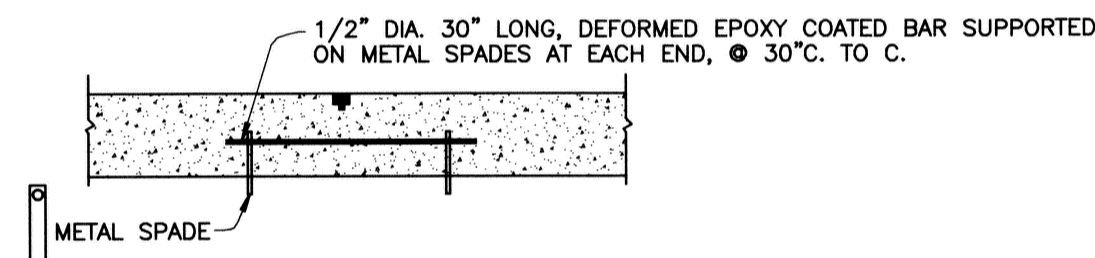
USE JOINT (A) OR (B) IF REPLACEMENT CONCRETE EXTENDS BEYOND EXPANSION ANCHOR HOOK BOLTS.



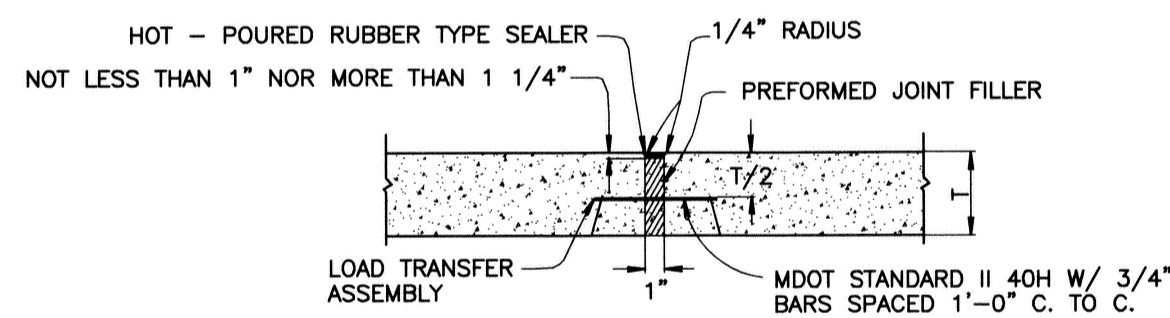
B TRANSVERSE / LONGITUDINAL PLANE OF WEAKNESS JOINT



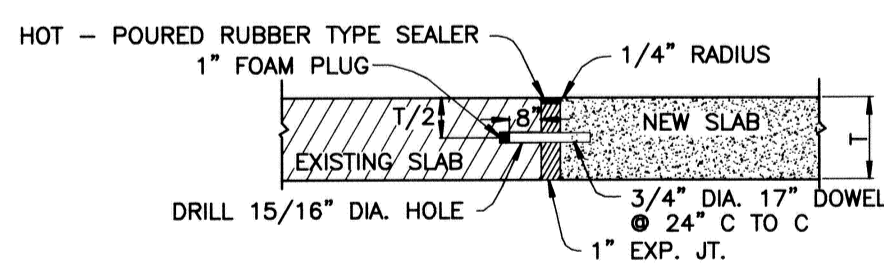
C HOOK BOLT DETAIL



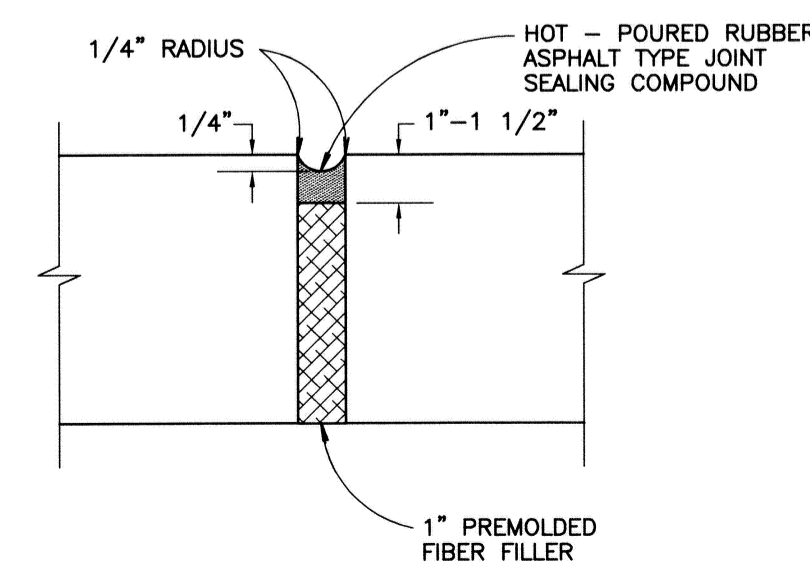
D TIEBAR DETAIL



1 LOAD TRANSFER ASSEMBLY WITH PREFORMED EXPANSION JOINT FILLER



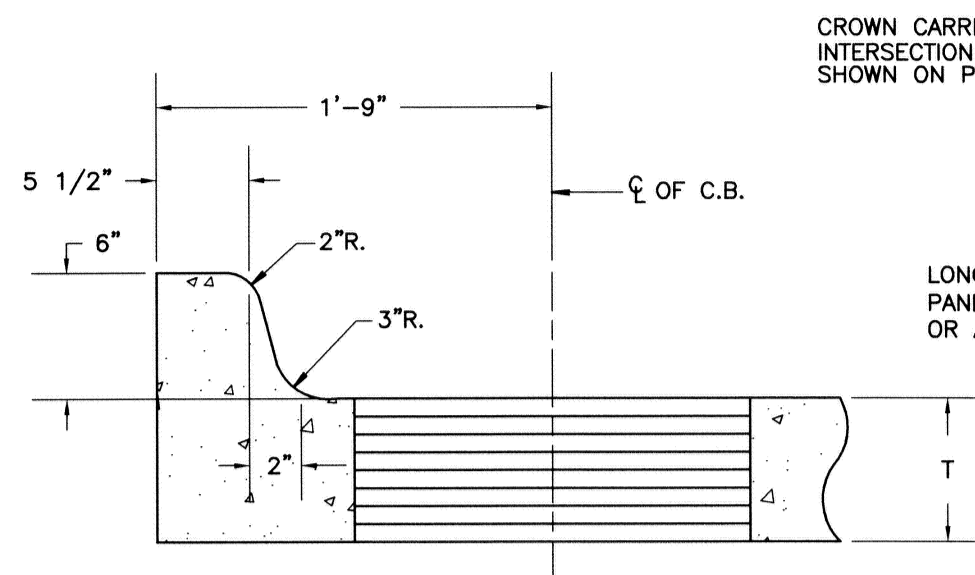
2 EXPANSION JOINT WITH 3/4\"/>



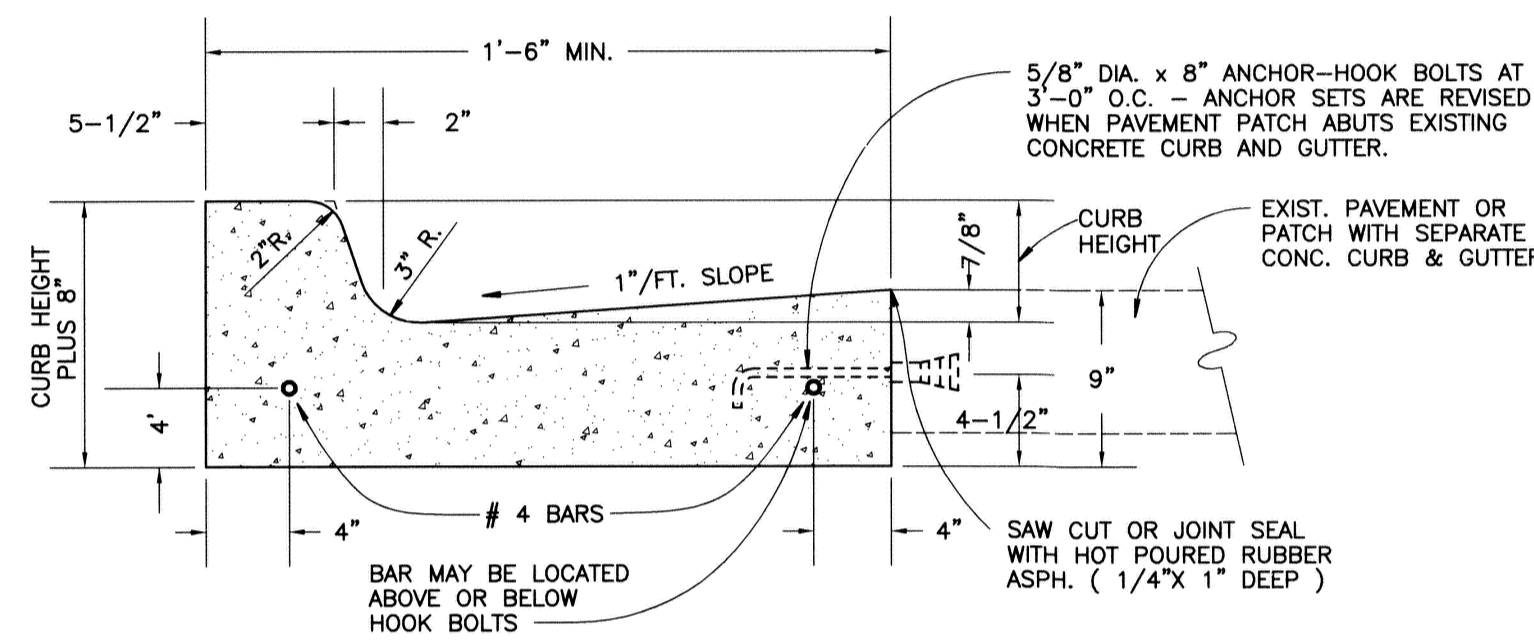
3 EXPANSION JOINT

4 EXPANSION JOINT SPACING

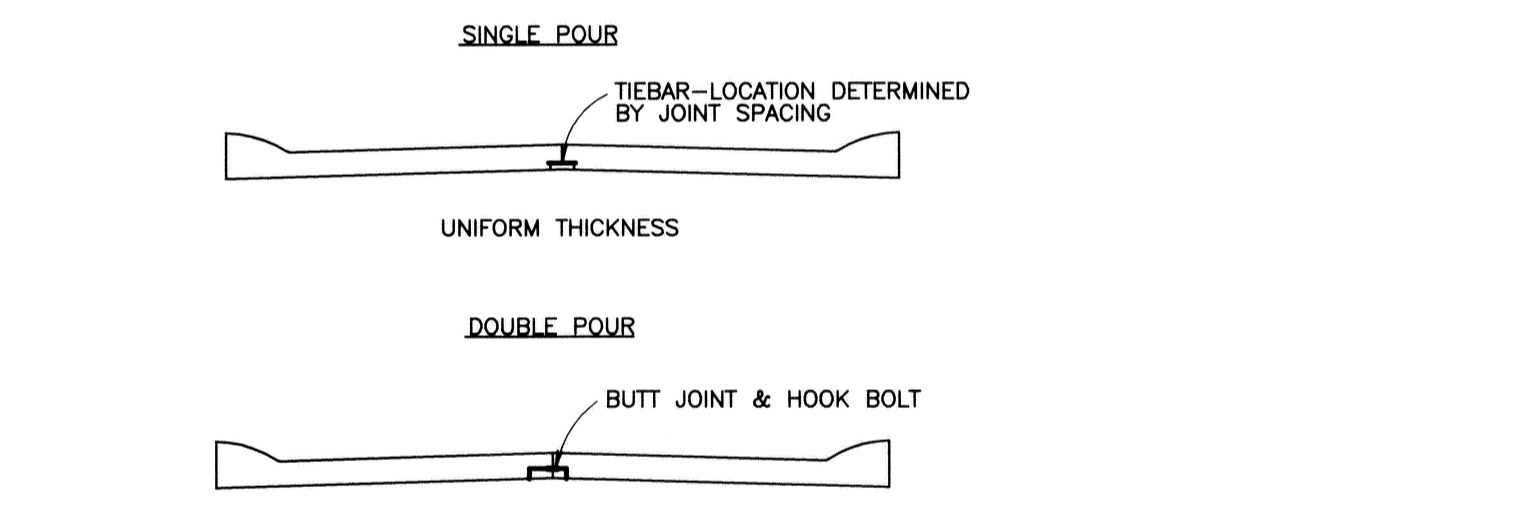
DAYTIME TEMPERATURES 50°F AND ABOVE:
AT ALL INTERSECTIONS; MAXIMUM SPACING 700 FEET; AS SHOWN ON PLANS.
DAYTIME TEMPERATURES BELOW 50°F:
AT ALL INTERSECTIONS; MAXIMUM SPACING 450 FEET; AS SHOWN ON PLANS.



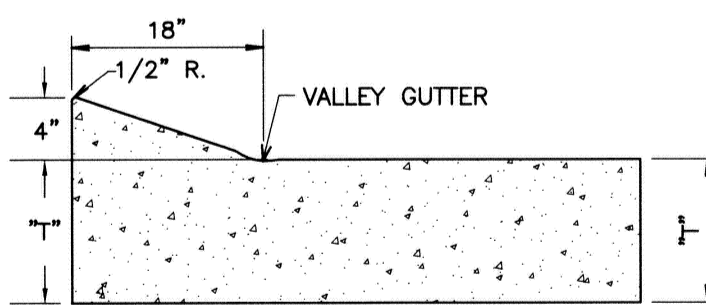
6\"/>



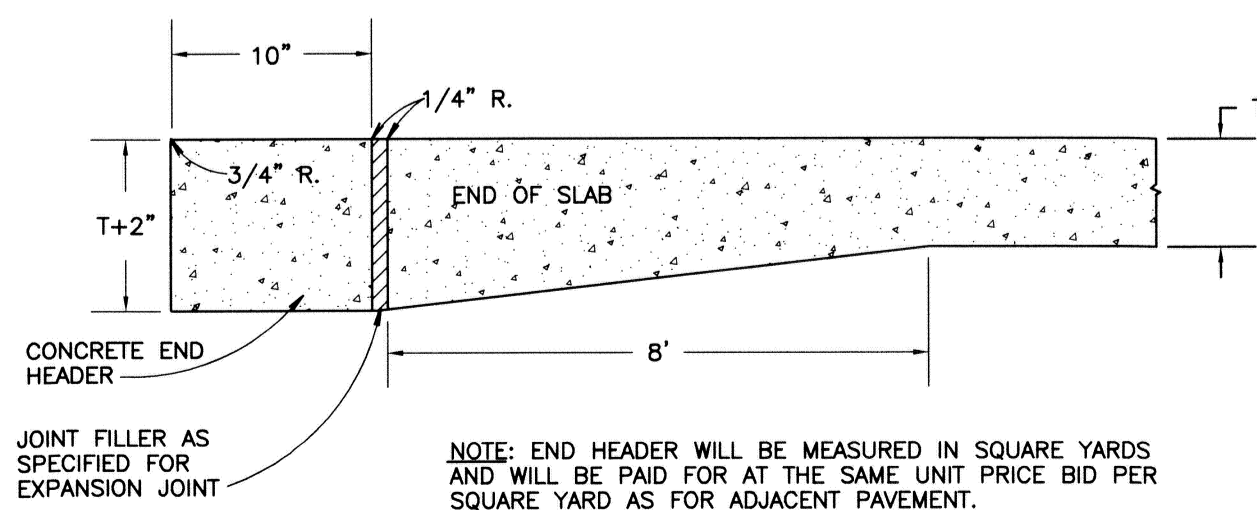
TYPICAL CONCRETE CURB AND GUTTER DETAIL



PAVEMENT SECTION



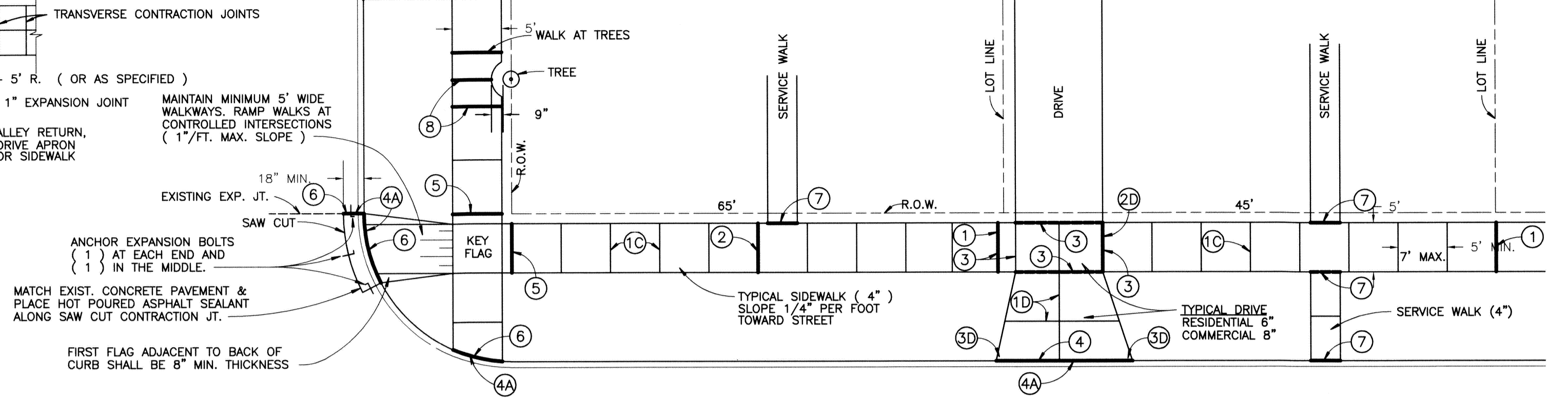
4\"/>



END HEADER

5 JOINTING DETAIL

- 1. BUTT JOINT OR
- 2. PREFORMED STRIP
- 3. SAWED WEAKENED PLANE JOINT



*** EXPANSION JOINTS**

- 1 PLACE 1/2\"/>
- 2 ADDITIONAL 1/2\"/>
- 3 PLACE 1/2\"/>
- 4 PLACE 1\"/>
- 4A AT CURB LINE, EXPANSION JOINTS SHALL BE SEALED WITH HOT RUBBERIZED SEALANT.
- 5 PLACE 1/2\"/>
- 6 PLACE 1\"/>
- 7 PLACE 1/2\"/>

CONTRACTION JOINTS

- 10 PLACE CONTRACTION JOINTS AT INTERVALS NOT LESS THAN 5' OR GREATER THAN 7'. FULL WIDTH OF WALK. JOINT DEPTH SHALL BE 1/2 THICKNESS OF CONCRETE.
- 20 PLACE CONTRACTION JOINTS AT WALK LINES FOR FULL WIDTH SIDEWALK.

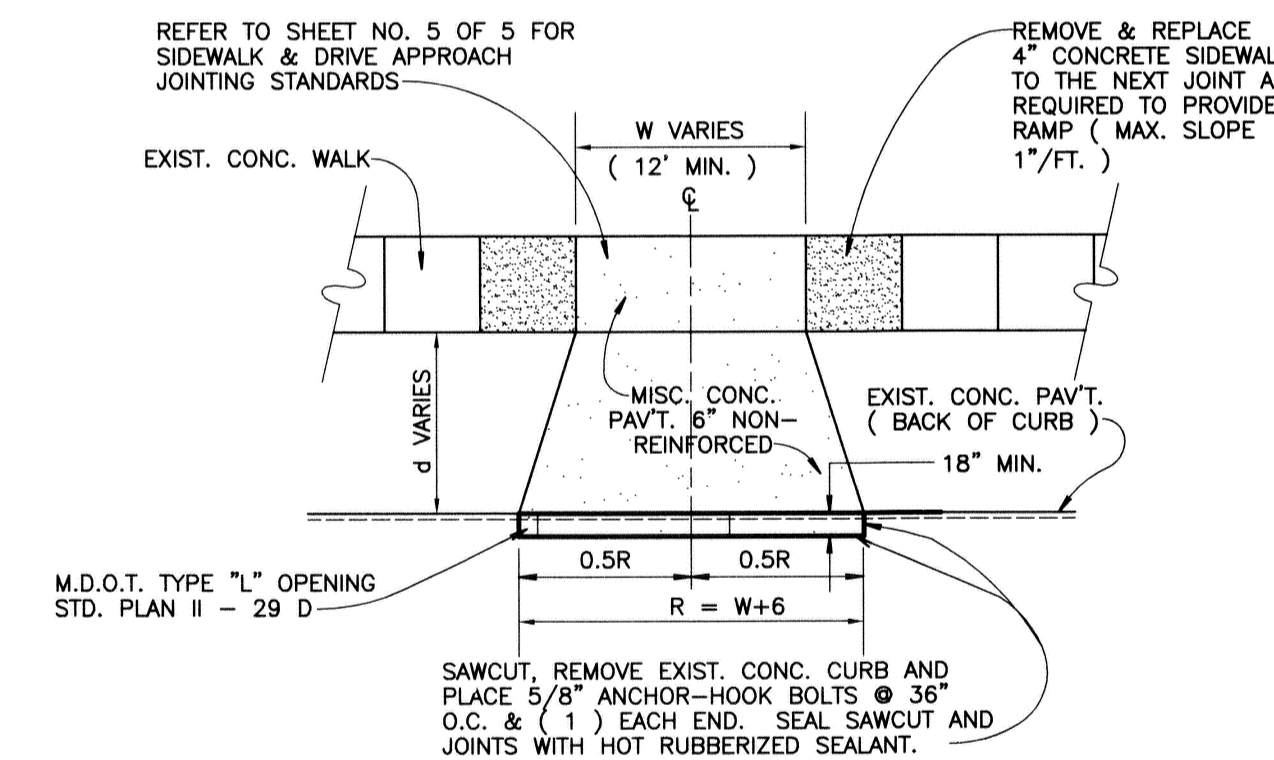
DRIVEWAYS

- 10 PLACE CONTRACTION JOINTS SO THAT NO SECTION OF THE CONCRETE DRIVEWAY EXCEEDS A DIMENSION OF 15'x15'.
- 20 PLACE 1\"/>
- 30 WIDTH OF APPROACH AT STREET SHOULD BE MIN. 2' WIDER THAN WIDTH AT SIDEWALK, EACH SIDE.

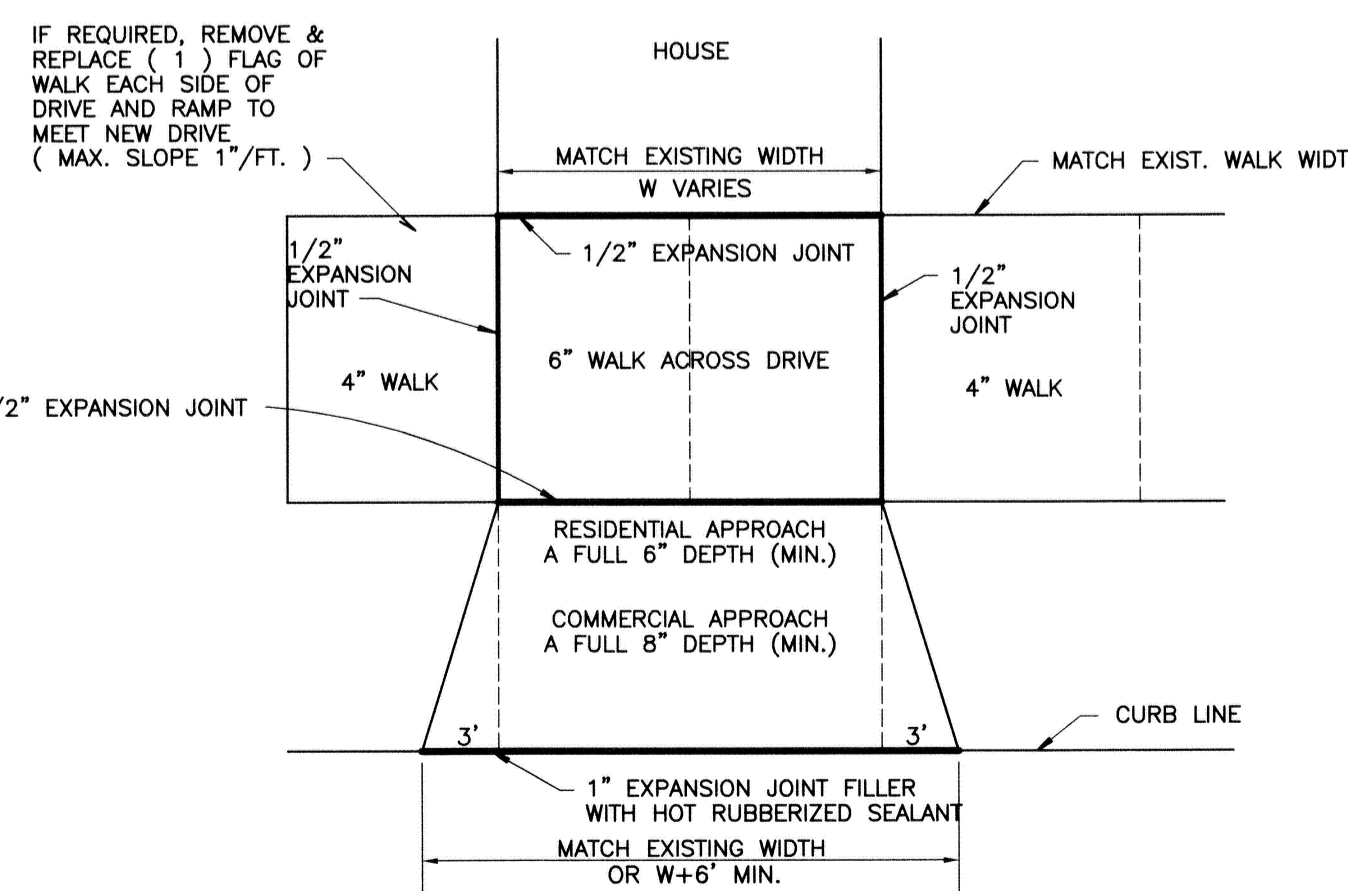
* FIBER EXPANSION JOINT FILLERS SHALL BE FULL DEPTH

NOTES

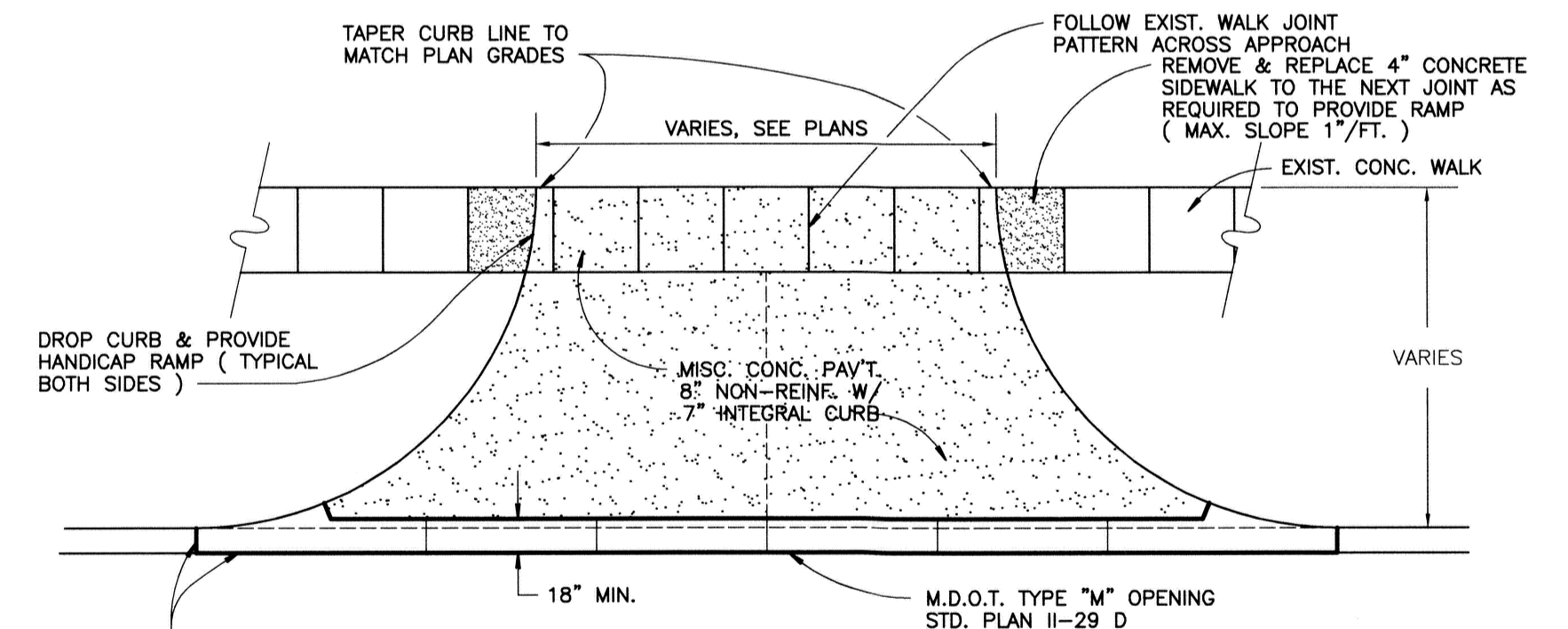
- 1. CONCRETE WORK NOT CONSTRUCTED UNDER THE CITY'S CONTRACTOR, MUST BE DONE UNDER A PERMIT, SECURED THROUGH THE CITY'S ENGINEERING DEPARTMENT.
- 2. NO CONCRETE SHALL BE PLACED UNTIL A PRE-CHECK HAS BEEN REQUESTED BY THE CONTRACTOR OR HOME-OWNER AND APPROVED BY THE CITY'S ENGINEERING DEPARTMENT AT LEAST (8) HOURS IN ADVANCE, FINAL INSPECTION IS ALSO REQUIRED AT PLACEMENT OF CONCRETE.
- 3. ALL WORK SHALL CONFORM TO THE CITY'S STANDARDS & SPECIFICATIONS AVAILABLE THROUGH THE ENGINEERING DEPARTMENT.
- 4. HANDICAP RAMP SHALL MEET PAVEMENT GUTTER ELEVATION. NO LIP PERMITTED.



NEW RESIDENTIAL DRIVEWAY LAYOUT FOR EXISTING PAVEMENT CONDITION



REMOVAL AND REPLACEMENT OF EXISTING DRIVE APPROACH FOR EXISTING OR NEW PAVEMENT CONDITION



NEW COMMERCIAL DRIVEWAY LAYOUT FOR EXISTING PAVEMENT CONDITION

CITY OF GROSSE POINTE WOODS STANDARD PAVING DETAILS

DEPARTMENT OF PUBLIC WORKS

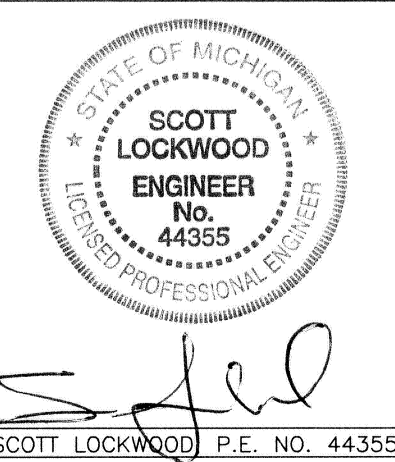
APPROVED BY: *Joseph J. Miller Jr.*
JOSEPH J. MILLER JR., DPM DIRECTOR

DATE: 2/6/07

ANDERSON, ECKSTEIN AND WESTRICK, INC.
Civil Engineers • Surveyors • Architects
51301 Schoenherr Road, Shelby Township, Michigan 48315
Phone 586•726•1234 Fax 586•726•8780

PROJECT NO. SHEET NO.
DATE FEBRUARY, 2007
DRAWN BY DMS CHECKED BY FDV

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SCOTT LOCKWOOD P.E. NO. 44355