

SAGINAW COUNTY PARKING LOT CONSTRUCTION AT: 400 BLOCK OF JOHNSON STREET CITY OF SAGINAW, MICHIGAN

OWNER:

CONTACT INFO: SAGINAW COUNTY GOVERNMENT
111 S. MICHIGAN AVE.
SAGINAW, MICHIGAN 48602
PHONE: (989) 790-5505

ARCHITECT/ENGINEER:

WAK Engineers-Architects-Consultants
William A. Kibbe & Associates, Inc.
1475 S. Washington Avenue, Saginaw, MI 48601
989-752-5000 www.kibbe.com

CONTACT INFO: MR. JAY C. WHEELER, PE – PROJECT ENGINEER – CIVIL
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DRAWING INDEX:

☐ TS TITLE SHEET

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- C1.2 TOPOGRAPHIC SURVEY PLAN POST SITE DEMOLITION
- C2.2 SITE DEMOLITION PLAN
- C3.1 NEW SITE LAYOUT PLAN AND DIMENSION PLAN
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ELECTRICAL:

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REV. #	DATE	DESCRIPTION	BY
07-16-12		ISSUED FOR BID	JW

STATUS/REVISIONS

WAK Engineers-Architects-Consultants
William A. Kibbe & Associates, Inc.
1475 S. Washington Avenue, Saginaw, MI 48601

PROJECT:
PARKING LOT CONSTRUCTION AT:
400 BLOCK OF JOHNSON STREET
SAGINAW, MICHIGAN

DRAWN BY: TAG	SHEET TITLE:
DESIGNED BY: TAG	TITLE SHEET
CHECKED BY: JCW	
APPROVED BY: JCW	DRAWING NUMBER:
PROJECT NUMBER: 12-0462-0190	TS
	SHEET OF



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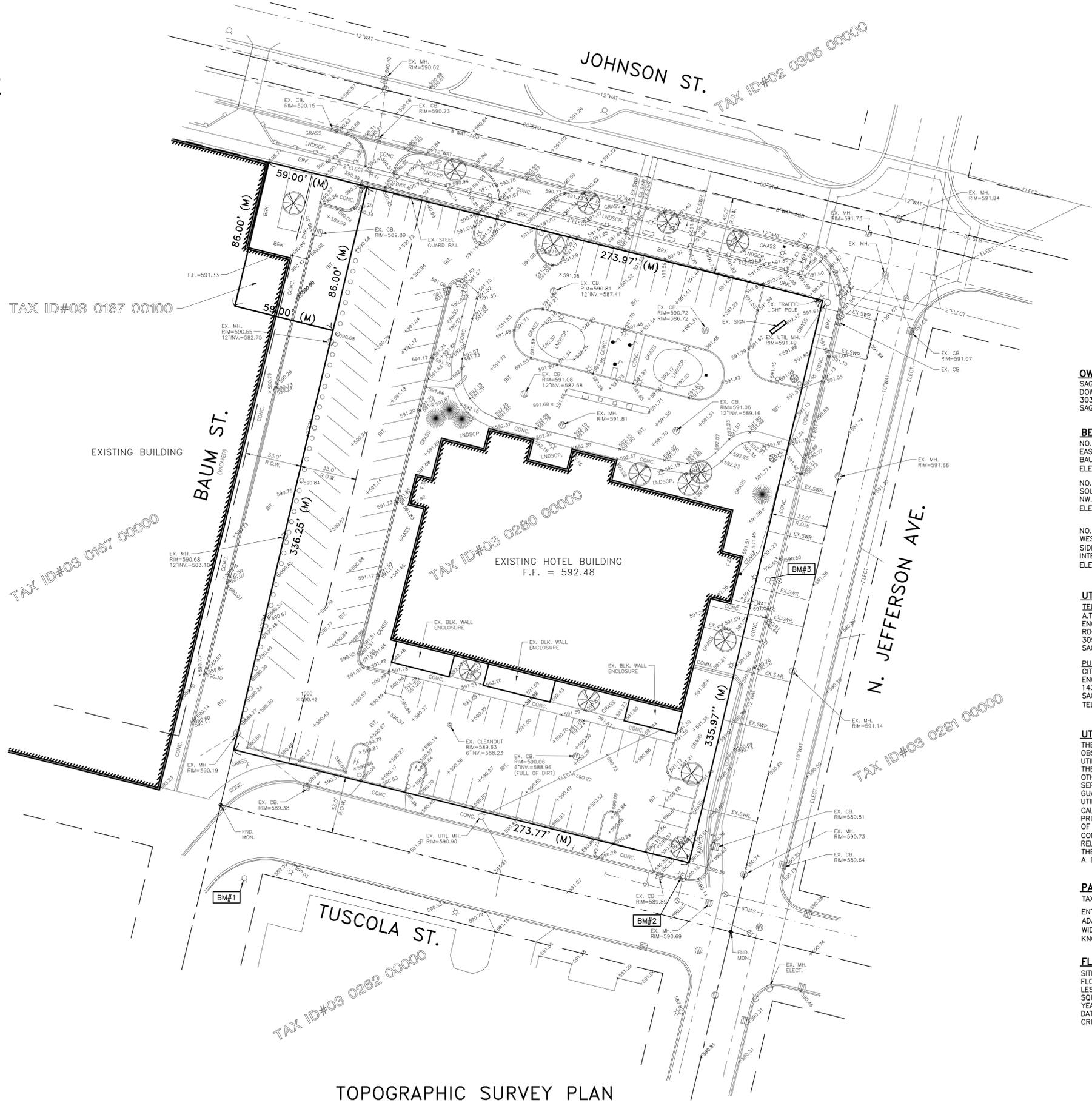
TAX ID#03 0167 00100

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TAX ID#03 0280 00000

TAX ID#03 0291 00000

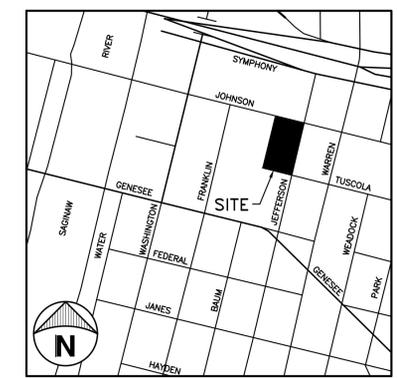
TAX ID#03 0262 00000



TOPOGRAPHIC SURVEY PLAN PRE-SITE DEMOLITION



SCALE: 1"=30'



LOCATION MAP
NOT TO SCALE

LEGEND

- EX. SPOT GRADE
- EX. SANITARY SEWER W/MANHOLE
- EX. STORM SEWER
- EX. WATERMAIN
- EX. ELECTRIC LINE
- EX. CHAINLINK FENCE
- EX. WOOD FENCE
- EX. GAS LINE
- EX. TELEPHONE LINE
- EX. OVERHEAD UTILITY WIRES
- EX. SIGN WITH POST
- EX. BUILDINGS
- EX. BITUMINOUS PAVEMENT
- EX. CONCRETE PAVEMENT (C. OR CONC.)
- EX. GRAVEL PAVEMENT
- EX. STEEL POST
- EX. STORM CURB INLET
- EX. STORM CATCH BASIN/MANHOLE
- EX. HYDRANT
- EX. WATER OR GAS VALVE
- EX. UTILITY POLE
- EX. SEWER CLEANOUT
- EX. WATER WELL
- EX. LIGHT POLE
- EX. UTILITY RISER OR BOX
- EX. MAILBOX

OWNER/DEVELOPER

SAGINAW COUNTY
DOW EVENT CENTER
303 JOHNSON STREET
SAGINAW, MICHIGAN 48607

BENCHMARK

- NO. 1
EASTERLY BOLT TOP FLANGE HYDRANT SE. QUAD VACATED BAUM ST. @ TUSCOLA ST.
ELEVATION = 591.44 (NAVD 88 DATUM)
- NO. 2
SOUTHERLY BOLT ON TOP FLANGE HYDRANT LOCATED AT NW. QUAD TUSCOLA ST. @ N. JEFFERSON AVE.
ELEVATION = 592.70 (NAVD 88 DATUM)
- NO. 3
WESTERLY BOLT ON TOP FLANGE HYDRANT LOCATED WEST SIDE N. JEFFERSON AVE. 205'+/- NORTH OF INTERSECTION TUSCOLA ST. @ NORTH JEFFERSON AVE.
ELEVATION = 592.74 (NAVD 88 DATUM)

UTILITY CONTACTS

TELEPHONE SERVICES
A.T.&T. c/o
ENGINEERING DEPT.
ROOM 525
309 S. WASHINGTON AVENUE
SAGINAW, MICHIGAN 48607

GAS & ELECTRIC
CONSUMERS ENERGY
2400 WEISS STREET
SAGINAW, MICHIGAN 48602
(517) 791-5903

PUBLIC UTILITIES/STREETS
CITY OF SAGINAW
ENGINEERING DEPT.
1435 S. WASHINGTON
SAGINAW, MICHIGAN 48601
TEL. (989) 759-1410

ZONING
CITY OF SAGINAW
PLANNING DEPT.
CITY HALL
TEL. (989) 759-1303

UTILITY NOTE

THE UTILITY LOCATIONS AS HEREIN SHOWN ARE BASED ON FIELD OBSERVATIONS AND A CAREFUL REVIEW OF MUNICIPAL AND UTILITY RECORDS. HOWEVER, IT IS NOT POSSIBLE TO DETERMINE THE PRECISE SIZE, LOCATION, DEPTH, PRESSURE, OR ANY OTHER CHARACTERISTICS OF UNDERGROUND UTILITIES, TANKS OR SEPTIC FIELDS WITHOUT EXCAVATION. THEREFORE, WE CANNOT GUARANTEE THE ACCURACY OF COMPLETENESS OF THE BURIED UTILITY INFORMATION HEREIN SHOWN. THE CONTRACTOR SHALL CALL "MISS DIG" AT (811) A MINIMUM OF THREE WORKING DAYS PRIOR TO ANY EXCAVATION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THESE LOCATIONS PRIOR TO CONSTRUCTION AND MAKE EVERY EFFORT TO PROTECT AND/OR RELOCATE THEM AS REQUIRED. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF DESIGN AS SOON AS POSSIBLE IN THE EVENT A DISCREPANCY IS FOUND.

PARCEL DESCRIPTION

TAX ID# 03 0280 00000
ENTIRE BLK.60 & E'LY 1/2 OF VACATED N BAUM ST LYING ADJACENT THERTO (EXC N 24 FT TAKEN FOR JOHNSON ST WIDENING) MAP OF THE CITY OF EAST SAGINAW, ALSO COMMONLY KNOWN AS HOYT'S PLAT.

FLOODPLAIN

SITE IS LOCATED WITHIN ZONE "X" - AREAS OF THE 500 YEAR FLOOD, AREAS OF 100 YEAR FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE, AND AREAS PROTECTED BY LEVEES FROM 100 YEAR FLOOD. PER FEMA MAP, PANEL 26145C0135 D, EFFECTIVE DATE, OCTOBER 16, 1997. PROPOSED PROJECT IS NOT A CRITICAL FACILITY.

REV. #	DATE	DESCRIPTION	BY
07-16-12		ISSUED FOR BID	JW
07-09-12		SUBMIT TO CITY PLANNING	TG

STATUS/REVISIONS

WAK Engineers-Architects-Consultants
William A. Kibbe & Associates, Inc.
1475 S. Washington Avenue, Saginaw, MI 48601

PROJECT:
PARKING LOT CONSTRUCTION AT:
400 BLOCK OF JOHNSON STREET

DRAWN BY: VJV	SHEET TITLE: TOPOGRAPHIC SURVEY PLAN PRE-SITE DEMOLITION
DESIGNED BY: VJV	
CHECKED BY: PGC	
APPROVED BY: MAD	DRAWING NUMBER: C1.1
PROJECT NUMBER: 12-0462-0190	SHEET 1 OF



Know what's below.
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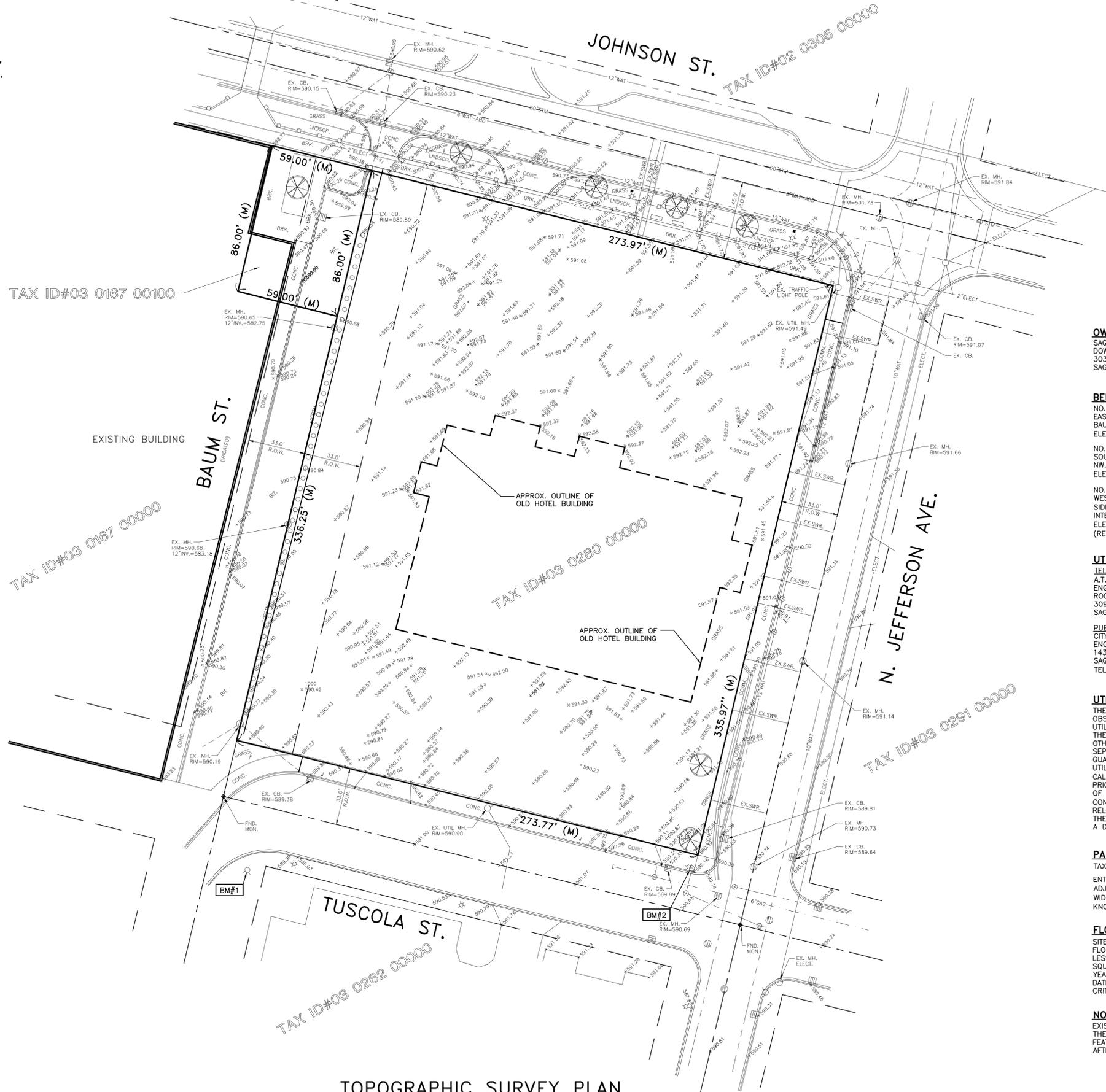
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TAX ID#03 0291 00000

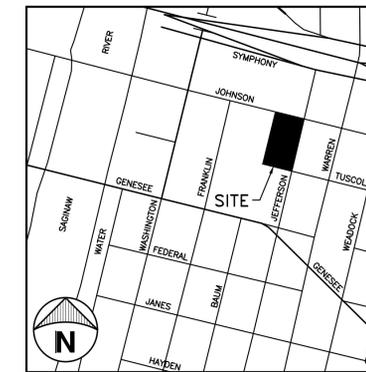
TAX ID#03 0262 00000



TOPOGRAPHIC SURVEY PLAN POST-SITE DEMOLITION



SCALE: 1"=30'



LOCATION MAP
NOT TO SCALE

LEGEND

- EX. SPOT GRADE
- EX. SANITARY SEWER W/MANHOLE
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(REMOVED BY CITY FORCES)

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NOTE
EXISTING TOPOGRAPHIC SPOT SHOTS WITHIN THE BOUNDARY OF THE PARCEL ARE FOR REFERENCE ONLY. EXISTING GROUND FEATURES WITHIN PROPERTY LINES MAY HAVE BEEN ADJUSTED AFTER DEMOLITION.

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07-16-12		ISSUED FOR BID	JW
07-09-12		SUBMIT TO CITY PLANNING	TG

STATUS/REVISIONS

W&A Engineers-Architects-Consultants
William A. Kibbe & Associates, Inc.
1475 S. Washington Avenue, Saginaw, MI 48601

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400 BLOCK OF JOHNSON STREET

DRAWN BY: VJV	SHEET TITLE: TOPOGRAPHIC SURVEY PLAN POST-SITE DEMOLITION
DESIGNED BY: VJV	
CHECKED BY: PGC	
APPROVED BY: MAD	DRAWING NUMBER: C1.2
PROJECT NUMBER: 12-0462-0190	SHEET 2 OF



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TAX ID#02 0305 00000

JOHNSON ST.

BAUM ST.

N. JEFFERSON AVE.

TUSCOLA ST.

SITE DEMOLITION PLAN

SCALE: 1"=30'

TAX ID#03 0167 00100

TAX ID#03 0167 00000

TAX ID#03 0280 00000

TAX ID#03 0291 00000

TAX ID#03 0262 00000

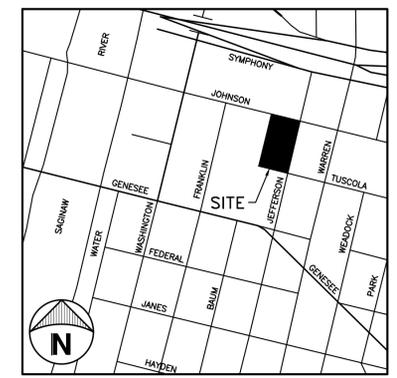
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TELEPHONE SERVICES A.T.&T. ENGINEERING DEPT. ROOM 525 309 S. WASHINGTON AVENUE SAGINAW, MICHIGAN 48607

PUBLIC UTILITIES CITY OF SAGINAW ENGINEERING DEPT. 1435 S. WASHINGTON SAGINAW, MICHIGAN 48601 TEL. (989) 759-1410

GAS CONSUMERS ENERGY 2400 WEISS STREET SAGINAW, MICHIGAN 48602 (517) 791-5903

ZONING CITY OF SAGINAW PLANNING DEPT. CITY HALL TEL. (989) 759-1303



LOCATION MAP NOT TO SCALE

DEMOLITION NOTES:

- 1.) ALL DEMOLITION WORK SHALL CONFORM TO ALL LOCAL CODES AND ORDINANCES. ALL DEMOLITION OPERATIONS SHALL COMPLY WITH MIOSHA REGULATIONS INsofar AS THEY APPLY TO THE REQUIRED WORK. A SOIL EROSION CONTROL PLAN WILL BE REQUIRED PRIOR TO DEMOLITION.
2.) THE CONTRACTOR SHALL REMOVE AND CLEAR ALL TREES, BRUSH, FENCES, BUILDINGS, CURB AND PAVEMENT AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
3.) ALL DEMOLITION MATERIAL SHALL BE PROPERLY REMOVED FROM THE SITE AND DISPOSED OF IN A LEGALLY DESIGNATED DISPOSAL AREA. NO ON-SITE BURNING WILL BE PERMITTED. PERMITS AND FEES FOR DISPOSAL OF DEMOLITION MATERIAL SHALL BE OBTAINED AND PAID FOR BY THE CONTRACTOR.
4.) TYPICAL PAVEMENT SECTION NOTE: ALL SURPLUS EXCAVATED MATERIAL SHALL BE PROPERLY REMOVED FROM THE SITE AND DISPOSED OF IN A LEGAL DESIGNATED DISPOSAL AREA. PERMITS AND FEES FOR DISPOSAL OF SURPLUS EXCAVATED MATERIAL SHALL BE OBTAINED AND PAID FOR BY THE CONTRACTOR. BASE AND ALTERNATE BIDS.
5.) BACKFILL EXCAVATED AREAS WITH CLEAN GRANULAR FILL COMPACTED TO 95% DENSITY IN 12" LIFTS.
6.) AT THE CONCLUSION OF THE DEMOLITION OPERATIONS, THE ENTIRE WORK AREA SHALL BE LEFT IN A CLEAN CONDITION WITH ANY PROTECTIVE DEVICES AND BARRIERS REMOVED. ALL EXPOSED AREAS SHALL BE SUITABLE TOPSOIL, SEEDED AND MULCHED.
7.) CONTRACTOR TO VERIFY ALL UTILITIES WITHIN CONSTRUCTION INFLUENCE. NOTIFY ENGINEER OF ANY CONFLICTS.
8.) CONTRACTOR SHALL COORDINATE WITH ALL LOCAL UTILITY OWNERS, IE: AT&T, CONSUMERS ENERGY, CHARTER COMM., CITY OF SAGINAW AND ALL OTHERS THAT WOULD APPLY TO THE DISTURBED AREA OF CONSTRUCTION. OBTAIN NECESSARY PERMITS APPLICABLE.
9.) CONTRACTOR SHALL VERIFY CONSTRUCTION SCHEDULING AND NOTES ON EACH SHEET PRIOR TO DEMOLITION. DEMOLITION TO BE SCHEDULED WITH OWNER AND ENGINEER.
10.) CONTRACTOR TO VERIFY ALL SPRINKLER SYSTEM APPURTENANCES WITHIN PROPOSED NEW CONSTRUCTION AREAS, IF APPLICABLE. CONTRACTOR SHALL REMOVE AND RELOCATE PER THE SPRINKLER MANUFACTURER'S SPECIFICATIONS AND PER OWNER, IF APPLICABLE.
11.) REFER TO ARCHITECTURAL/STRUCTURAL PLANS FOR REMOVAL OF ANY BUILDING ATTACHED STAIRS, SUPPORTED SLABS, RAILINGS, DOORS OR OTHER BUILDING RELATED DEMO ITEMS WITHIN 5 FEET OF EXISTING BUILDING WALLS, IF APPLICABLE.
12.) REFER TO MECHANICAL/ELECTRICAL FOR ANY STORM, SANITARY, WATER, ELECTRICAL, COMMUNICATION OR GAS ITEM DEMO REMOVAL ITEMS ALONG AND WITHIN 5 FEET OF EXISTING BUILDING WALLS.
13.) REFER TO MECHANICAL/ELECTRICAL FOR ANY STORM, SANITARY, WATER, ELECTRICAL, COMMUNICATION OR GAS ITEM DEMO REMOVAL ITEMS ALONG AND WITHIN 5 FEET OF EXISTING BUILDING WALLS.

LEGEND

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EX. SANITARY SEWER W/MANHOLE
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EX. LIGHT POLE
EX. UTILITY RISER OR BOX
EX. MAILBOX

DEMOLITION KEYED NOTES:

- 1 REMOVE, ABANDON, RE-SET, ADJUST, RE-ROUTE EXISTING UTILITY SERVICE. SEE NEW SITE PLANS FOR NEW/RELOCATED ITEMS. COORDINATE WITH UTILITY COMPANY FOR EXACT LOCATION, IF APPLICABLE. UG LINE AREA REPRESENTED BY: [diagonal hatching]
2 REMOVE EXISTING CONCRETE SURFACES. SAWCUT PER PLAN OR TO NEAREST JOINT. SEE NOTE 3 THIS SHEET. AREA REPRESENTED BY: [cross-hatching]
3 REMOVE EXISTING BIT. SURFACES AND SUB-BASE FULL DEPTH. SAWCUT PER PLAN OR TO NEAREST JOINT. SEE NOTE 3 THIS SHEET. AREA REPRESENTED BY: [diagonal hatching]
4 REMOVE EXISTING CONCRETE CURBING AND SUB-BASE. SAWCUT PER PLAN OR TO NEAREST JOINT. SEE NOTE 3 THIS SHEET. AREA REPRESENTED BY: [dashed line]
5 REMOVE EXISTING FENCES, POSTS, BOLLARDS, GATES, UTILITY POLES, LIGHT POLES, SIGNS, BENCHES, TRASH CONTAINERS, GUARD RAILS AND WHEELSTOPS, ETC. SEE NEW SITE PLANS FOR ITEMS TO BE RELOCATED OR SALVAGED.
6 REMOVE, SALVAGE SAVE OR RELOCATED EXISTING LANDSCAPING, BUSHES OR TREES. VERIFY WITH OWNER FOR TREES TO BE REMOVED AND RELOCATED SOMEWHERE ON-SITE, IF APPLICABLE.

Table with columns: REV. #, DATE, DESCRIPTION, BY. Row 1: 07-16-12, ISSUED FOR BID, JW

STATUS/REVISIONS

W&A Engineers-Architects-Consultants
William A. Kibbe & Associates, Inc.
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Table with columns: DRAWN BY, DESIGNED BY, CHECKED BY, APPROVED BY, PROJECT NUMBER, SHEET TITLE, DRAWING NUMBER. Values: VJV, VJV, PGC, MAD, 12-0462-0190, SITE DEMOLITION PLAN, C2.2



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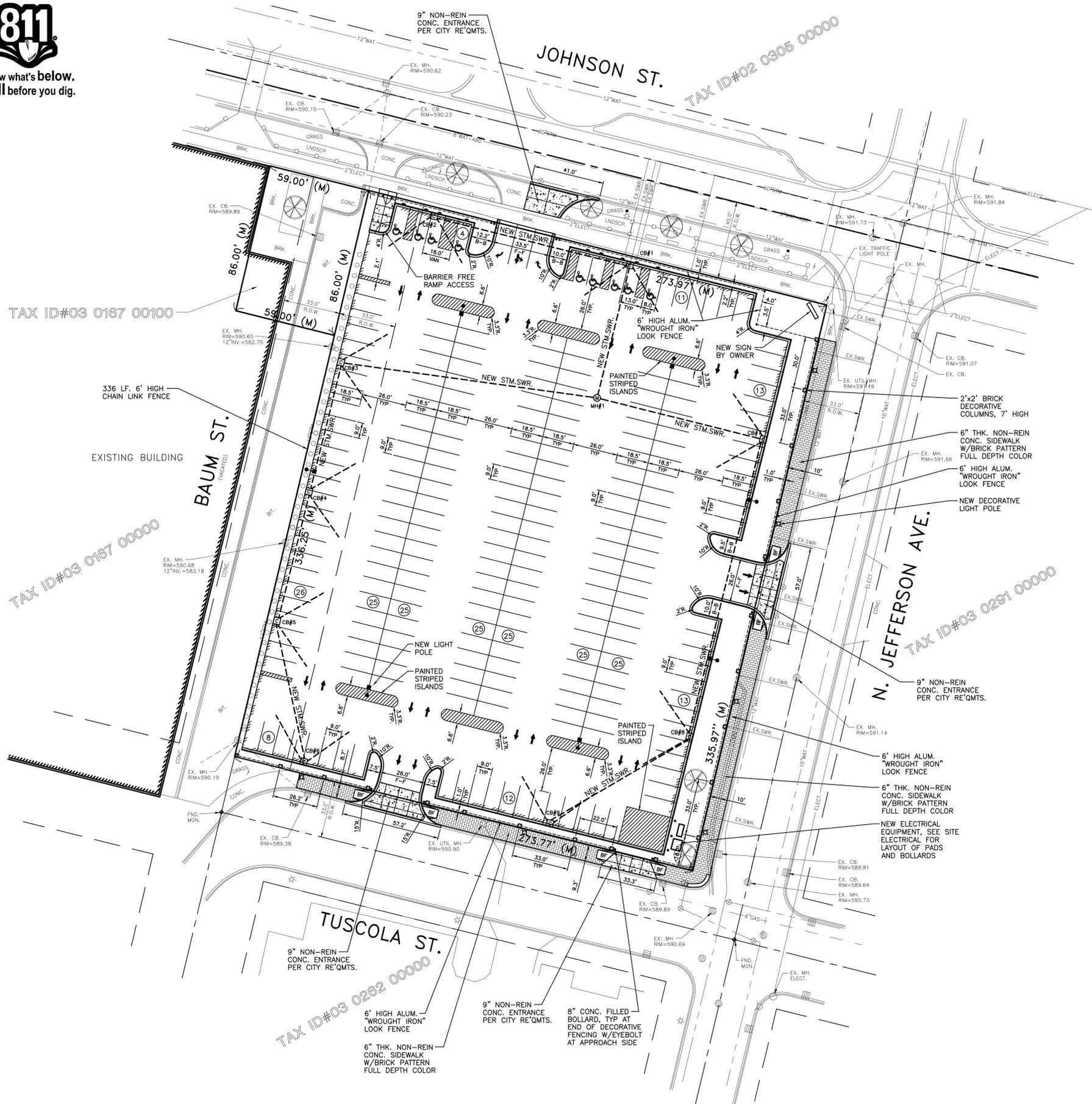
TAX ID#03 0167 00100

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TAX ID#03 0291 00000

TAX ID#03 0262 00000



ZONING INFORMATION

ZONED:
B-2 AND B-3
PROPOSED USE - PAID PUBLIC PARKING

BUILDING SETBACKS:

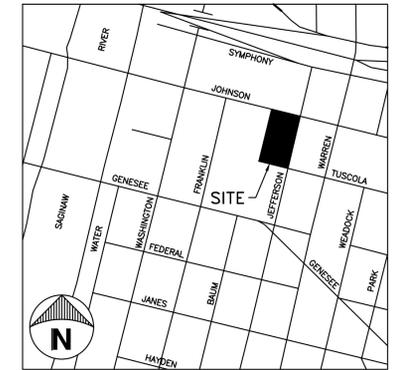
B-2
FRONT YARD = 0 FEET
SIDE YARD = 10 FEET
REAR YARD = 10 FEET
B-3
FRONT YARD = 0 FEET
SIDE YARD = 0 FEET
REAR YARD = 0 FEET

PARKING:
237 SPACES PROVIDED
228 REGULAR
9 BARRIER FREE

AREAS:
TOTAL PARCEL ACREAGE = 2.11 ACRES

GENERAL SITE NOTES:

- THE CONTRACTOR SHALL CALL "MISS DIG" (811) 3 WORKING DAYS BEFORE DIGGING ON THE PROJECT TO VERIFY EXISTING UNDERGROUND UTILITIES.
- THE EXISTING UTILITIES SHOWN ON THESE PLANS HAVE BEEN DRAWN IN ACCORDANCE TO THE INFORMATION PROVIDED. ALL UTILITIES SHALL BE FIELD LOCATED BY THE CONTRACTOR PRIOR TO CROSSING. ANY CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
- DURING THE LIFE OF THE PROJECT, THE CONTRACTOR SHALL CONFORM TO ACT No. 451, PUBLIC ACTS OF 1994, RELATIVE TO THE SOIL EROSION AND SEDIMENTATION CONTROL ACT.
- CLEANUP SHALL INCLUDE DEBRIS REMOVAL, ROUGH GRADING, MINIMUM 4" TOPSOIL PLACEMENT, SEEDING, AND FERTILIZING OVER ALL AREAS DISTURBED BY THE CONTRACTOR'S OPERATIONS.
- CONTRACTOR TO SUPPLY ALL MATERIALS AND EQUIPMENT NECESSARY TO COMPLETE THE WORK.
- THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR PROTECTION OF ALL EXISTING UTILITIES DURING CONSTRUCTION. ALL COSTS FOR LOCATING, REMOVING, REPLACING OR RELOCATING THESE UTILITIES SHALL BE INCIDENTAL TO CONSTRUCTION. ALL UTILITIES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED WITH LIKE MATERIAL AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR SHALL NOTIFY PROPER GOVERNMENTAL INSPECTION AGENCY AT LEAST 48 HOURS PRIOR TO STARTING CONSTRUCTION.
- THE CONTRACTOR SHALL BE REQUIRED TO COMPLETE ALL WORK IN AN EXPEDITIOUS MANNER AND SHALL NOT STOP CONSTRUCTION FOR EXTENDED PERIODS ONCE CONSTRUCTION HAS BEGUN.
- THE CONTRACTOR SHALL MAINTAIN IN SERVICE, ALL EXISTING SANITARY SEWER, WATER OR STORM SEWER SERVICE CONNECTIONS WHENEVER POSSIBLE. COORDINATE WITH LOCAL UTILITY COMPANY AND OWNER BEFORE ANY UTILITIES TO BE OUT OF SERVICE FOR A PERIOD OF TIME.
- CONSTRUCTION OPERATIONS SHALL BE SCHEDULED AND PERFORMED SO THAT PREVENTATIVE EROSION CONTROL MEASURES ARE IN PLACE PRIOR TO EXCAVATION AND TEMPORARY STABILIZATION MEASURES ARE IN PLACE IMMEDIATELY FOLLOWING BACK FILLING AND/OR GRADING OPERATIONS.
- REFER TO ARCHITECTURAL/STRUCTURAL PLANS FOR BUILDING DIMENSIONS, BIDDING ALTERNATES AND DETAILS REFERRING TO ANY PLANTERS, RAMPS, STEPS, STOOPS, RETAINING WALL AND WALL ENCLOSURES. FOR PIPING, HVAC AND ELECTRICAL, SEE MECHANICAL AND ELECTRICAL PLANS.
- MECHANICAL ENGINEER SHALL COORDINATE ONSITE ELECTRICAL AND GAS WITH LOCAL UTILITY COMPANY. CONTRACTOR SHALL KEEP EXISTING SERVICES IN PLACE OR RE-ROUTE TEMPORARILY, IF APPLICABLE.
- REFER TO ELECTRICAL SITE PLANS FOR UG CONDUITS, TRANSFORMERS, OHV LINE COORDINATION AND LIGHT POLE, LIGHT FIXTURE LOCATIONS AND DETAILS.
- REFER TO SITE GRADING PLANS FOR MORE DETAILED NOTES FOR PAVING, UTILITIES AND FINISHED GRADES.
- CONTRACTOR IS REQUIRED TO HAVE PERMITS FROM CITY OF SAGINAW TO INCLUDE BARRICADING, STREET CUT, SIDEWALK, CURB CUT AND SEWER EXTENSIONS. ALL SITE WORK WILL COMPLY TO THE LATEST RULES AND REGULATIONS AND SPECIFICATIONS PER THE CITY OF SAGINAW.
- SEWER AND WATER MATERIALS AND SERVICES MUST BE INSTALLED ACCORDING TO THE CITY OF SAGINAW'S LATEST STANDARDS AND RULES AND REGULATIONS FOR THE CONSTRUCTION AND MAINTENANCE OF THESE UTILITIES. OBTAIN ALL NECESSARY PERMITS AND FEES PRIOR TO ANY CONSTRUCTION.
- SEWERS MUST BE PREMIUM JOINT, BELL AND SPIGOT ENDS. SANITARY SEWER MATERIAL TO BE SDR-26. ALL CATCH BASINS MUST BE A MINIMUM OF (3) FOOT DIAMETER WITH (2) FOOT SUMP. ALL CATCH BASINS LOCATED AT THE INITIAL SEWER EXTENSIONS SHALL BE TRAPPED. EXTEND TRAPS TO OUTLET INVERTS IF APPLICABLE. ALL MANHOLES SHALL BE A MINIMUM OF (4) FOOT DIAMETER.
- PROPOSED LIGHTING SHALL BE IN ACCORDANCE TO THE LATEST CITY OF SAGINAW GUIDELINES. ALL POLE MOUNTED LIGHTS SHALL BE DIRECTED IN A DOWNWARD MANNER AND AVOID ANY ENCROACHMENT ONTO ANY RESIDENTIAL PROPERTIES.



LOCATION MAP
NOT TO SCALE

LEGEND

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- EX. ELECTRIC LINE
- EX. CHAINLINK FENCE
- EX. WOOD FENCE
- EX. GAS LINE
- EX. TELEPHONE LINE
- EX. OVERHEAD UTILITY WIRES
- EX. SIGN WITH POST
- EX. BUILDINGS
- EX. BITUMINOUS PAVEMENT
- EX. CONCRETE PAVEMENT (C. OR CONC.)
- EX. GRAVEL PAVEMENT
- EX. STEEL POST
- EX. STORM CURB INLET
- EX. STORM CATCH BASIN/MANHOLE
- EX. HYDRANT
- EX. WATER OR GAS VALVE
- EX. UTILITY POLE
- EX. LIGHT POLE
- EX. UTILITY RISER OR BOX
- PROP. STORM CATCH BASIN/MANHOLE
- PROP. STORM SEWER
- PROP. BITUMINOUS PAVEMENT
- PROP. CONCRETE PAVEMENT
- PROP. BRICK PATTERN SIDEWALK
- PROP. LIGHTPOLE

REV. #	DATE	DESCRIPTION	BY
07-16-12		ISSUED FOR BID	TG
07-09-12		SUBMIT TO CITY PLANNING	TG

STATUS/REVISIONS

WAK Engineers-Architects-Consultants
William A. Kibbe & Associates, Inc.
1475 S. Washington Avenue, Saginaw, MI 48601

PROJECT:
PARKING LOT CONSTRUCTION AT:
400 BLOCK OF JOHNSON STREET

DRAWN BY: TAG	SHEET TITLE: NEW SITE LAYOUT AND DIMENSION PLAN
DESIGNED BY: TAG	
CHECKED BY: JCW	
APPROVED BY: JCW	DRAWING NUMBER: C3.1
PROJECT NUMBER: 12-0462-0190	SHEET 4 OF

NEW SITE LAYOUT AND DIMENSION PLAN
SCALE: 1"=30'

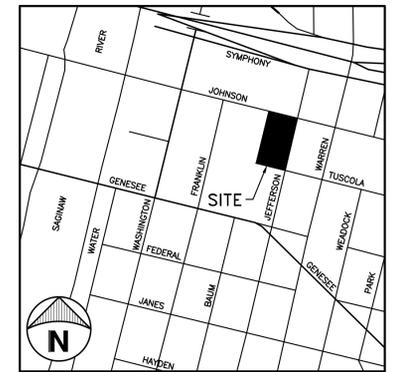


Know what's below. Call before you dig.

CITY FORCES TO INSPECT SERVICE CONNECTIONS FROM MAINLINE SERVICE LEAD TO PRIVATE LINE. CONTRACTOR AND CITY TO COORDINATE INVERTS AND VERIFY CONNECTION LOCATIONS. NOTIFY ENGINEER FOR ANY CONFLICTS PRIOR TO CONSTRUCTION.

GENERAL GRADING NOTES:

- 1. THE CONTRACTOR SHALL CALL "MISS DIG" (811) 3 WORKING DAYS BEFORE DIGGING ON THE PROJECT TO VERIFY EXISTING UNDERGROUND UTILITIES.
2. THE EXISTING UTILITIES SHOWN ON THESE PLANS HAVE BEEN DRAWN IN ACCORDANCE TO THE INFORMATION PROVIDED. ALL UTILITIES SHALL BE FIELD LOCATED BY THE CONTRACTOR PRIOR TO CROSSING. ANY CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
3. DURING THE LIFE OF THE PROJECT, THE CONTRACTOR SHALL CONFORM TO ACT No. 451, PUBLIC ACTS OF 1994, RELATIVE TO THE SOIL EROSION AND SEDIMENTATION CONTROL ACT.
4. MATCH EXISTING BIT. PAVEMENT ALONG NEW WALKS AND PROPOSED NEW BIT. PAVEMENT AREAS WHERE APPLICABLE, UNLESS NOTED OTHERWISE.
5. SAND FILL UNDER FLOOR SLABS SHALL BE MDOT CL.II GRANULAR BACKFILL. SAND SHALL BE SPREAD IN UNIFORM LAYERS NOT TO EXCEED 6" THICK BEFORE COMPACTION. EACH LAYER SHALL BE THOROUGHLY COMPACTED WITH A VIBRATING COMPACTOR AFTER EACH LAYER IS PLACED. FILL SAND SHALL NOT HAVE A MOISTURE CONTENT GREATER THAN 15%. COMPACTION SHALL MEET 95% OF MAXIMUM UNIT WEIGHT AS DETERMINED BY THE MODIFIED PROCTOR TEST, IF APPLICABLE.
6. ALL FILL ON PROPERTY SHALL BE ADEQUATELY COMPACTED BY ROLLING TO PRODUCE A SURFACE SATISFACTORY FOR THE INSTALLATION OF BASE COURSE AND PAVING.
7. THE SITE EXCAVATION CONTRACTOR SHALL VERIFY THE EXISTING STORM SEWER DEPTH PRIOR TO ANY FOOTING EXCAVATION OR OTHER EXCAVATED AREAS.
8. REMOVE EXISTING TOP SOIL FROM AREAS TO BE PAVED AND REPLACE WITH SUITABLE COMPACTED FILL. FILL MATERIAL SHALL BE COMPACTED SAND BACKFILL CLASS II GRANULAR.
9. BACKFILL ALL TRENCHES UNDER SLABS, WALKS AND PAVED AREAS WITH COMPACTED SAND BACKFILL MDOT CL.II. COMPACTION SHALL BE 95% MAXIMUM UNIT WEIGHT AS DETERMINED BY MODIFIED PROCTOR.
10. ALL ON SITE WATER SERVICE SHALL MEET THE REQUIREMENTS OF THE STANDARD DETAILS OF CITY OF SAGINAW, IF APPLICABLE.
11. THE CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL REGULATIONS FOR WORK AT THE SITE. THIS SHALL INCLUDE MIOSHA REGULATIONS.
12. THE CONTRACTOR/DEVELOPER SHALL PAY FOR AND OBTAIN ALL BUILDING PERMITS, LOCAL PERMITS AND PAY ALL CHARGES FOR ANY INSPECTION AND TESTING.
13. THE CONTRACTOR SHALL CONTROL NOISE, CARRY OUT A PROGRAM OF DUST CONTROL AND SHALL ALLOW NO ON-SITE BURNING.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING UP THE PREMISES AND UPON COMPLETION OF THE PROJECT LEAVE THE SITE IN AN ACCEPTABLE CONDITION AS DETERMINED BY THE ENGINEER OR THE OWNER.
15. SEWER AND WATER MATERIALS AND SERVICES MUST BE INSTALLED ACCORDING TO THE CITY OF SAGINAW'S LATEST STANDARDS AND RULES AND REGULATIONS FOR THE CONSTRUCTION AND MAINTENANCE OF THESE UTILITIES. OBTAIN ALL NECESSARY PERMITS AND FEES PRIOR TO ANY CONSTRUCTION.
16. SEWERS MUST BE PREMIUM JOINT, BELL AND SPIGOT ENDS. SANITARY SEWER MATERIAL TO BE SDR-26. ALL CATCH BASINS MUST BE A MINIMUM OF (3) FOOT DIAMETER WITH (2) FOOT SLUMPS. ALL CATCH BASINS LOCATED AT THE INITIAL SEWER EXTENSIONS SHALL BE TRAPPED. EXTEND TRAPS TO OUTLET INVERTS IF APPLICABLE. ALL MANHOLES SHALL BE A MINIMUM OF (4) FOOT DIAMETER.
17. PROVIDE 5 FEET TAPERS FOR CONCRETE CURBS DOWN TO EXISTING GRADES AT EXISTING WALK SURFACES AT JOHNSON STREET DRIVE. MAINTAIN POSITIVE FLOW ALONG CURB LINE. MAXIMUM CROSS SLOPE ALONG NEW SIDEWALKS SHALL BE NO MORE THAN 2.0% WITHIN THE CITY RIGHT OF WAY.



LOCATION MAP NOT TO SCALE

LEGEND

- EX. SPOT GRADE
EX. SANITARY SEWER W/MANHOLE
EX. STORM SEWER
EX. WATERMAIN
EX. ELECTRIC LINE
EX. CHAINLINK FENCE
EX. WOOD FENCE
EX. GAS LINE
EX. TELEPHONE LINE
EX. SIGN WITH POST
EX. BUILDINGS
EX. BITUMINOUS PAVEMENT
EX. CONCRETE PAVEMENT (C. OR CONC.)
EX. STEEL POST
EX. STORM CURB INLET
EX. STORM CATCH BASIN/MANHOLE
EX. HYDRANT
EX. WATER OR GAS VALVE
EX. UTILITY POLE
EX. LIGHT POLE
EX. UTILITY RISER OR BOX
PROP. STORM CATCH BASIN/MANHOLE
PROP. STORM SEWER
PROP. BITUMINOUS PAVEMENT
PROP. CONCRETE PAVEMENT
PROP. BRICK PATTERN SIDEWALK
PROP. LIGHTPOLE
PROP. FINISH GRADE
PROP. DRAINAGE FLOW
FINISH SURFACE
TOP OF CONCRETE CURB
TOP OF CONCRETE WALK
TOP OF CONCRETE SLAB
TOP OF FINISH BIT
MATCH EXISTING GRADE

STRUCTURE SCHEDULE

- MH #1 60" PRE-CAST MANHOLE W/ E.J.I.W. CASTING #1040 W/SOLID GRATE RIM=593.10
INV.12"N.=584.54
INV.12"E.=584.54
INV.12"W.=584.54
CB #1 48" PRE-CAST CATCH BASIN W/2'SUMP W/ E.J.I.W. CASTING #7205 W/M1 GRATE RIM=590.90
INV.6"N.=584.35
INV.12"W.=584.35
INV.4"PERF.=589.30
CB #2 36" PRE-CAST CATCH BASIN W/2'SUMP W/ E.J.I.W. CASTING #7205 W/M1 GRATE RIM=591.05
INV.12"E.=584.64
INV.4"PERF.=589.10
CB #3 36" PRE-CAST CATCH BASIN W/2'SUMP W/ E.J.I.W. CASTING #1040 W/M3 GRATE RIM=590.70
INV.12"E.=584.91
INV.12"S.=584.91
INV.4"PERF.=588.70
CB #4 36" PRE-CAST CATCH BASIN W/2'SUMP W/ E.J.I.W. CASTING #1040 W/M3 GRATE RIM=590.55
INV.12"N.=585.10
INV.12"S.=585.10
INV.4"PERF.=588.55
CB #5 36" PRE-CAST CATCH BASIN W/2'SUMP W/ E.J.I.W. CASTING #1040 W/M3 GRATE RIM=590.10
INV.12"N.=585.20
INV.12"S.=595.20
INV.4"PERF.=588.10
CB #6 36" PRE-CAST CATCH BASIN W/2'SUMP W/ E.J.I.W. CASTING #7205 W/M1 GRATE RIM=590.40
INV.12"NW.=585.40
INV.4"PERF.=588.40
CB #7 36" PRE-CAST CATCH BASIN W/2'SUMP W/ E.J.I.W. CASTING #7205 W/M1 GRATE RIM=591.45
INV.12"NW.=584.78
INV.12"S.=584.78
INV.4"PERF.=589.45
CB #8 36" PRE-CAST CATCH BASIN W/2'SUMP W/ E.J.I.W. CASTING #7205 W/M1 GRATE RIM=590.65
INV.12"N.=585.22
INV.12"SW.=585.22
INV.4"PERF.=588.65
CB #9 36" PRE-CAST CATCH BASIN W/2'SUMP W/ E.J.I.W. CASTING #7205 W/M1 GRATE RIM=590.65
INV.12"NE.=585.45
INV.4"PERF.=588.65

CONTRACTOR TO PROVIDE TOPSOIL BACKFILL AT NEW BACK OF BIT AND CONCRETE AND EXISTING DISTURBED BACK OF BIT AND CONCRETE AT A MINIMUM 1V:6H TO EXISTING GRADE, UNLESS NOTED OTHERWISE.

ENGINEER OF RECORD SHALL PERFORM CONSTRUCTION STAKING WITHIN BID ALLOWANCE OF THIS CONTRACT. CONTRACTOR TO CONTACT ENGINEER OF RECORD FOR ALL NEW CONSTRUCTION STAKING ITEMS AND COORDINATE SCOPE AND SCHEDULING.

MAINTAIN POSITIVE DRAINAGE FLOW TO ALL CATCH BASINS

SOIL EROSION AND SEDIMENTATION CONTROL NOTES:

- 1. CONSTRUCTION OPERATIONS SHALL BE SCHEDULED AND PERFORMED SO THAT PREVENTATIVE EROSION CONTROL MEASURES ARE IN PLACE PRIOR TO EXCAVATION AND TEMPORARY STABILIZATION MEASURES ARE IN PLACE IMMEDIATELY FOLLOWING BACKFILLING AND/OR GRADING OPERATIONS.
2. SPECIAL PRECAUTIONS WILL BE TAKEN IN THE USE OF CONSTRUCTION EQUIPMENT TO PREVENT SITUATIONS THAT PROMOTE EROSION.
3. CLEANUP WILL BE DONE IN A MANNER TO INSURE THAT EROSION CONTROL MEASURES ARE NOT DISTURBED.
4. THE PROJECT WILL CONTINUALLY BE INSPECTED FOR SOIL EROSION AND SEDIMENT CONTROL COMPLIANCE. DEFICIENCIES WILL BE CORRECTED BY THE CONTRACTOR WITHIN 24 HOURS.
5. TEMPORARY EROSION CONTROL MEASURES SHALL BE COMPLETELY REMOVED BY THE CONTRACTOR UPON ESTABLISHMENT OF PERMANENT CONTROL MEASURES.
6. COORDINATE WITH ARCHITECTURAL LANDSCAPING PLAN BY OTHERS FOR AREAS OF NEW GRASS, LANDSCAPING AND MULCH DESIGNATIONS.

CONSTRUCTION SEQUENCE

- 1. EXCAVATION AND STOCKPILING OF SOIL.
2. IMPLEMENTATION OF TEMPORARY EROSION CONTROL MEASURES; SELECTIVE GRADING, DIVERSIONS AS REQUIRED IN FIELD, PROTECTION OF STORM SEWER FACILITIES.
3. PERIODIC MAINTENANCE OF AFFECTED EROSION CONTROL MEASURES.
4. PERMANENT MEASURES; FINAL GRADING, SEEDING AND MULCHING. (SEE MICHIGAN UNIFIED KEYING SYSTEM FOR EROSION CONTROL KEY NUMBERS)
5. CONTRACTOR TO PROVIDE A STREET CLEANING SCHEDULE AND COORDINATE WITH RICHLAND TOWNSHIP AND MDOT FOR EXACT LOCATION OF CONSTRUCTION ACTIVITY.

KEYED DETAILS



NEW SITE GRADING, UTILITY PLAN AND S.E.S.C. PLAN



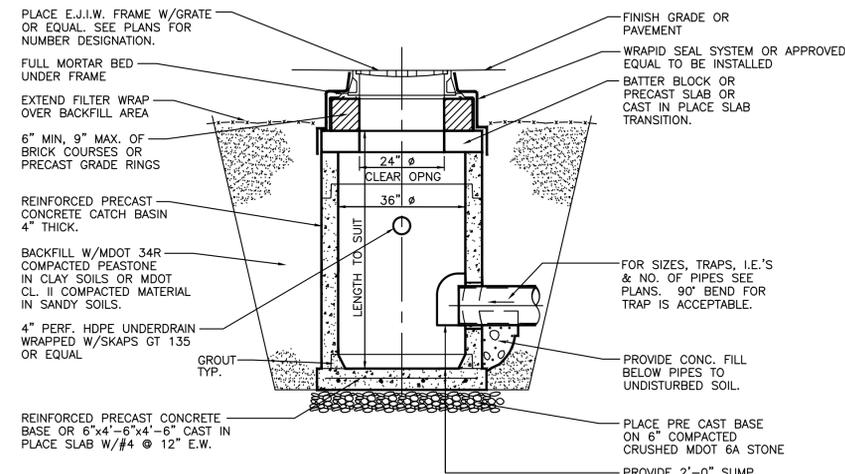
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STATUS/REVISIONS

W&A Engineers-Architects-Consultants
William A. Kibbe & Associates, Inc.
1475 S. Washington Avenue, Saginaw, MI 48601

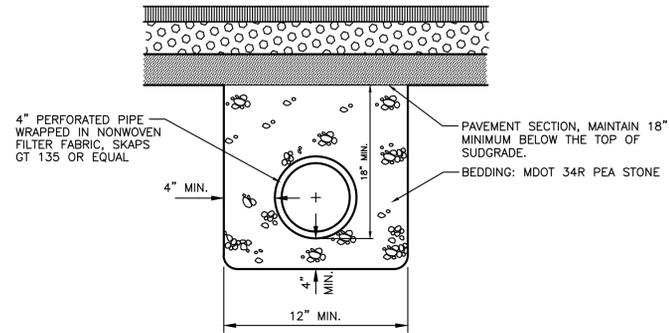
PROJECT: PARKING LOT CONSTRUCTION AT: 400 BLOCK OF JOHNSON STREET

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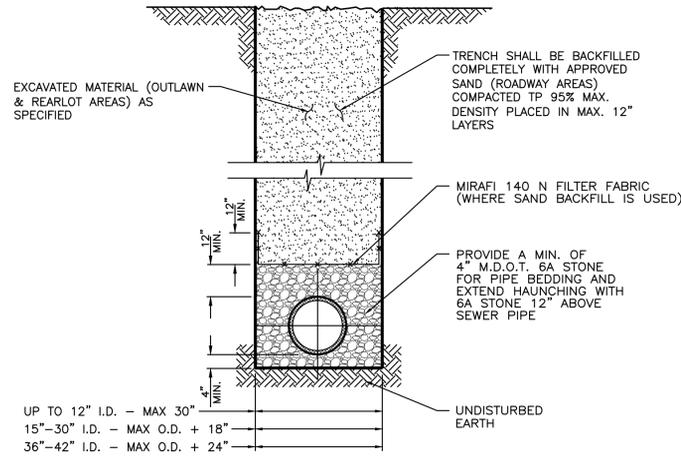
1
C5.1 NOT TO SCALE
TYPICAL CONCRETE CATCHBASIN DETAIL

4" PERFORATED PIPE WITH FILTER FABRIC SHALL BE CORRUGATED PLASTIC TUBING MEETING THE REQUIREMENTS OF AASHTO M252 FOR POLYETHYLENE (PE) TUBING AND ASTM F 800 FOR POLYVINYL CHLORIDE (PVC) TUBING, EXCEPT THAT ALL PERFORATIONS SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M 252.

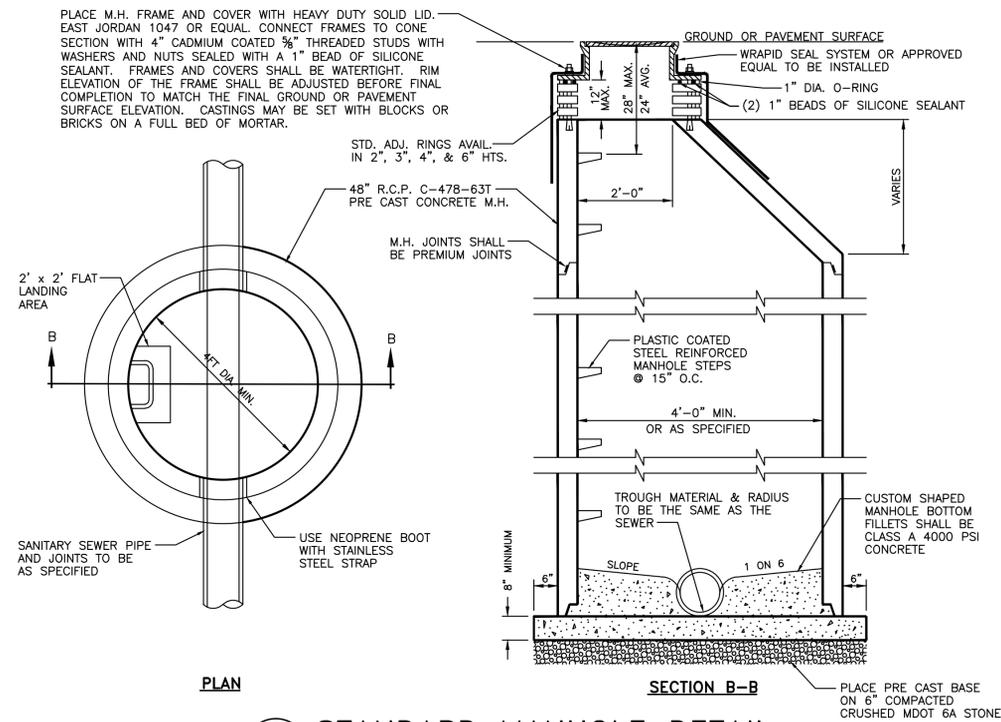


3
C5.1 NOT TO SCALE
TYPICAL PERF. PIPE TRENCH DETAIL
PAVEMENT UNDERDRAINS

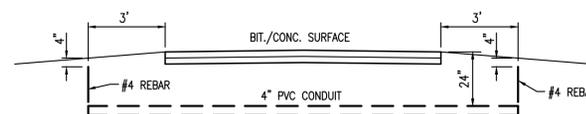
PIPE SIZE	TRENCH WIDTH	
	MINIMUM	MAXIMUM
8" & 10"	24"	30"
12" & 15"	30"	36"
18"	34"	40"
21"	38"	42"
24"	42"	46"
27"	45"	49"
30"	49"	53"
36"	56"	60"
LARGER THAN 36" I.D.	I.D. + 20"	I.D. + 24"



4
C5.1 NOT TO SCALE
D.W.P.E., H.D.P.E., P.V.C. & A/D 2000, TYPICAL SEWER PIPE TRENCH DETAIL



2
C5.1 NOT TO SCALE
STANDARD MANHOLE DETAIL



5
C5.1 NOT TO SCALE
TYPICAL CONDUIT DETAIL

REV. #	DATE	DESCRIPTION	BY
07-16-12	ISSUED FOR BID		TG

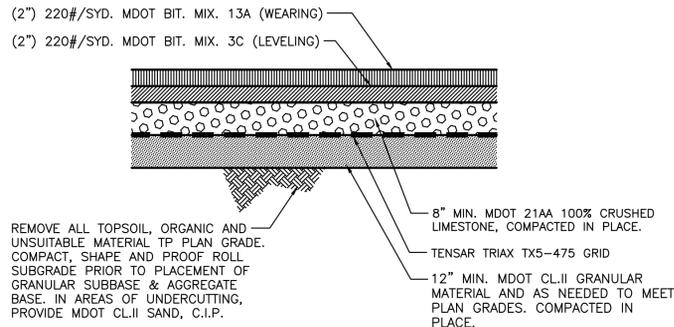
STATUS/REVISIONS

WAK Engineers-Architects-Consultants
William A. Kibbe & Associates, Inc.
 1475 S. Washington Avenue, Saginaw, MI 48601

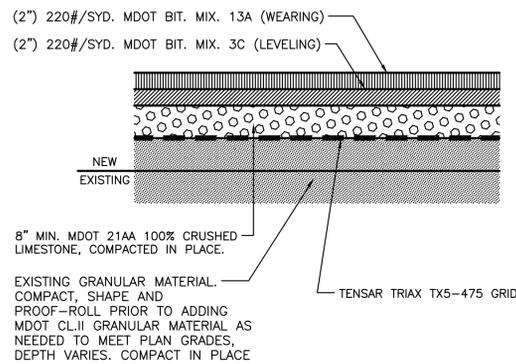
PROJECT:
 PARKING LOT CONSTRUCTION AT:
 400 BLOCK OF JOHNSON STREET

DRAWN BY: TAG	SHEET TITLE: MISCELLANEOUS SITE DETAILS
DESIGNED BY: TAG	
CHECKED BY: JCW	
APPROVED BY: JCW	DRAWING NUMBER: C5.1
PROJECT NUMBER: 12-0462-0190	SHEET 6 OF

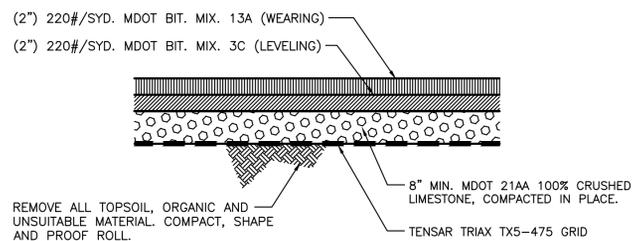
TYPICAL PAVEMENT SECTION NOTE: ALL SURPLUS EXCAVATED MATERIAL SHALL BE PROPERLY REMOVED FROM THE SITE AND DISPOSED OF IN A LEGAL DESIGNATED DISPOSAL AREA. PERMITS AND FEES FOR DISPOSAL OF SURPLUS EXCAVATED MATERIAL SHALL BE OBTAINED AND PAID FOR BY THE CONTRACTOR. BASE AND ALTERNATE BIDS.



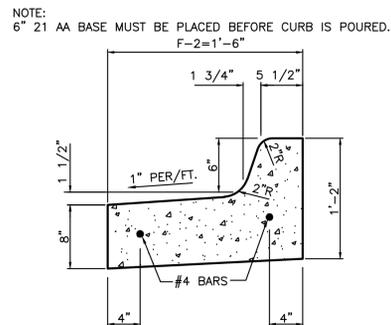
1
C5.2 NOT TO SCALE - (BASE BID)
**TYPICAL PAVEMENT SECTION
REGULAR DUTY AREAS**



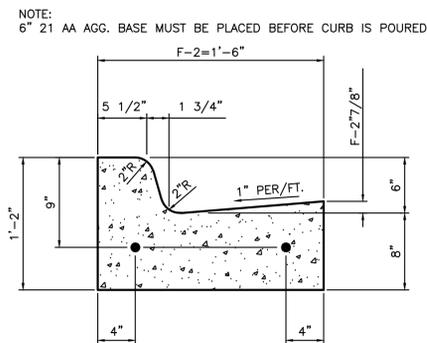
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C5.2 NOT TO SCALE - (ALTERNATE NO.2)
**TYPICAL PAVEMENT SECTION
REGULAR DUTY AREAS**



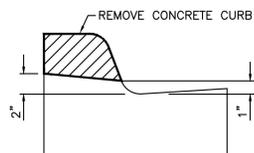
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C5.2 NOT TO SCALE - (ALTERNATE NO.2)
**TYPICAL PAVEMENT SECTION
REGULAR DUTY AREAS**



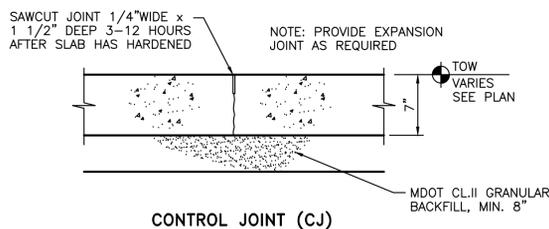
4
C5.2 NOT TO SCALE
**CONCRETE CURB & GUTTER DETAIL
M.D.O.T. MODIFIED F-2**



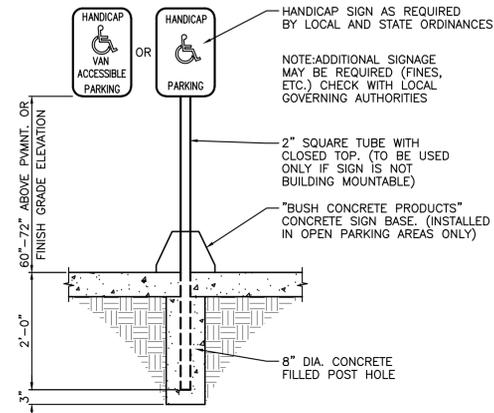
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C5.2 NOT TO SCALE
**CONCRETE CURB & GUTTER DETAIL
M.D.O.T. F-2**



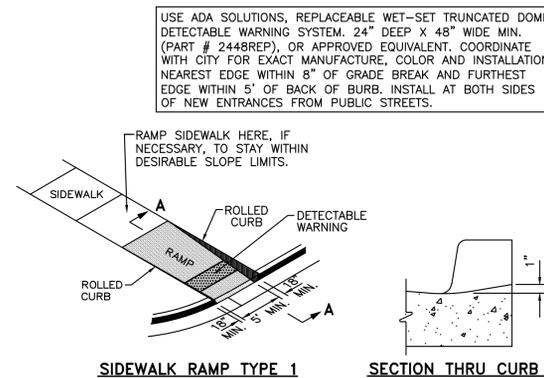
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C5.2 NOT TO SCALE
**BACK OF CURB
REMOVAL DETAIL**



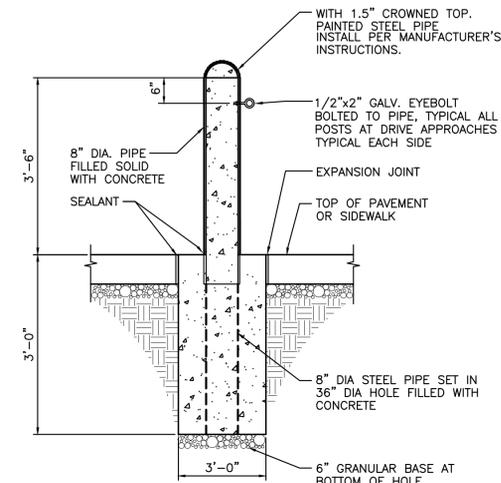
7
C5.2 NOT TO SCALE
**TYPICAL CONCRETE
PAVING/SIDEWALK DETAIL
PER CITY STANDARDS (NON-REIN.)**



8
C5.2 NOT TO SCALE
**TYPICAL HANDICAP
SIGN DETAIL**



9
C5.2 NOT TO SCALE
TYPICAL HANDI-CAP RAMP DETAILS-A



10
C5.2 NOT TO SCALE
**TYPICAL PIPE
BOLLARD DETAIL**

USE ADA SOLUTIONS, REPLACEABLE WET-SET TRUNCATED DOME DETECTABLE WARNING SYSTEM. 24\"/>

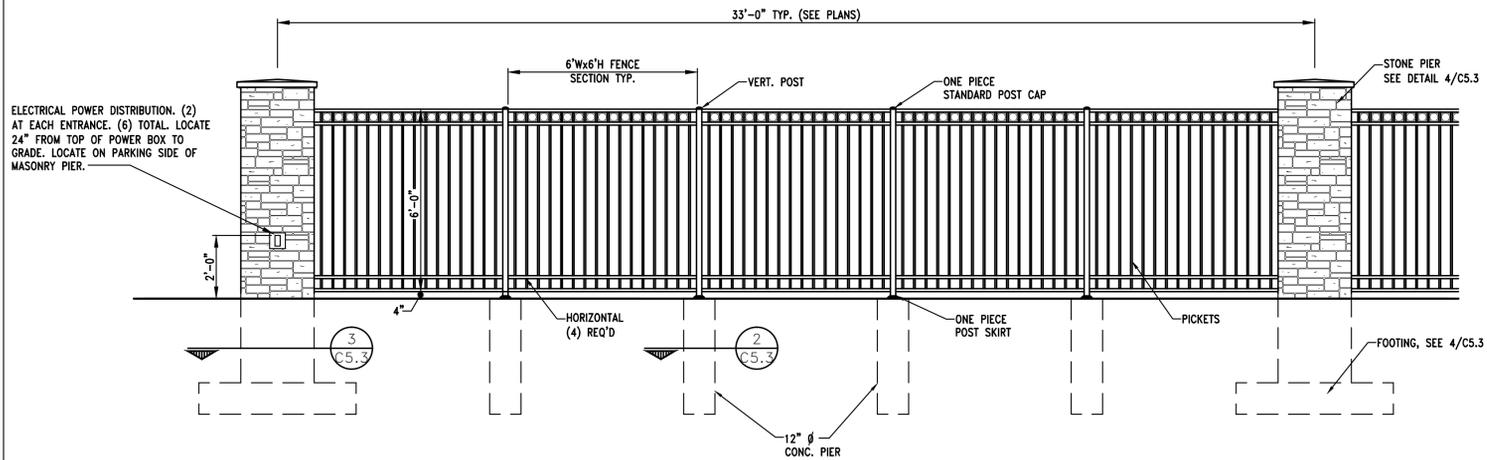
REV. #	DATE	DESCRIPTION	BY
07-16-12		ISSUED FOR BID	JW

STATUS/REVISIONS

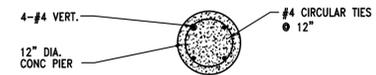
WAK Engineers-Architects-Consultants
William A. Kibbe & Associates, Inc.
1475 S. Washington Avenue, Saginaw, MI 48601

PROJECT:
PARKING LOT CONSTRUCTION AT:
400 BLOCK OF JOHNSON STREET

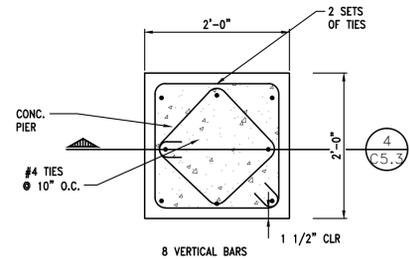
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DESIGNED BY: TAG	
CHECKED BY: JCW	
APPROVED BY: JCW	DRAWING NUMBER: C5.2
PROJECT NUMBER: 12-0462-0190	SHEET 7 OF



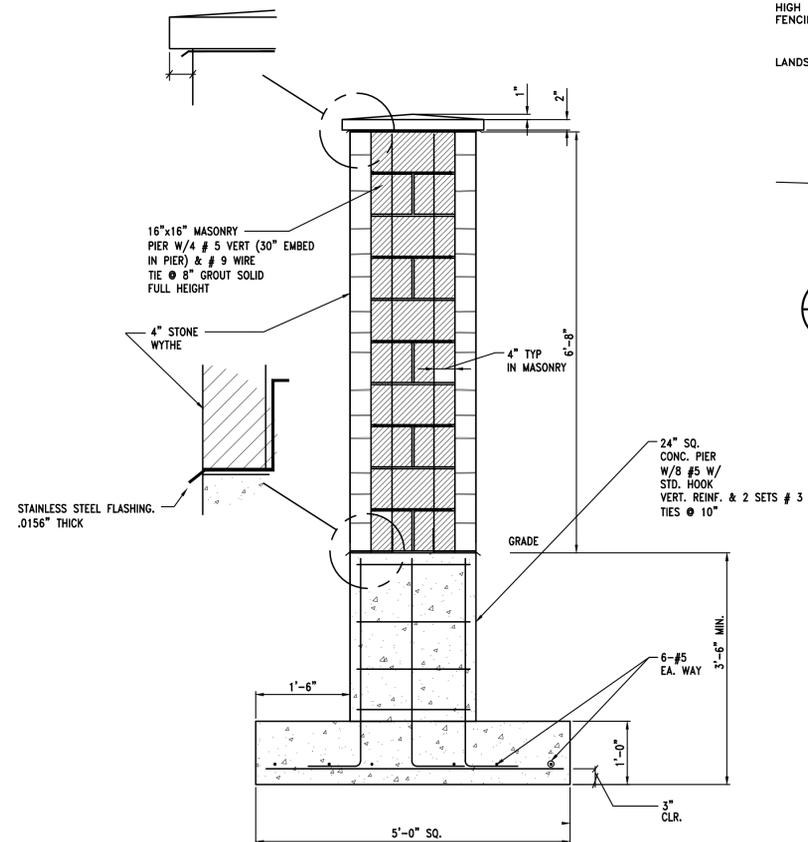
1 TYP. FENCE ELEVATION
C5.3 3/8" = 1'-0"



2 DETAIL
C5.3 3/4" = 1'-0"



3 DETAIL
C5.3 3/4" = 1'-0"



4 DETAIL
C5.3 3/4" = 1'-0"

GENERAL NOTES/SPECIFICATIONS

GENERAL

- THIS RENOVATION HAS BEEN DESIGNED AND SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MICHIGAN BUILDING CODE, 2009 EDITION.
- THE CONTRACTOR SHALL SUBMIT CONCRETE REINFORCING SHOP DRAWINGS PRIOR TO FABRICATION. THE CONTRACTOR SHALL ALSO SUBMIT MATERIAL REQUIREMENTS AND CONCRETE MIX DESIGNS. ALLOW (2) WEEKS FOR ENGINEER REVIEW.

DIVISION 3 - CONCRETE

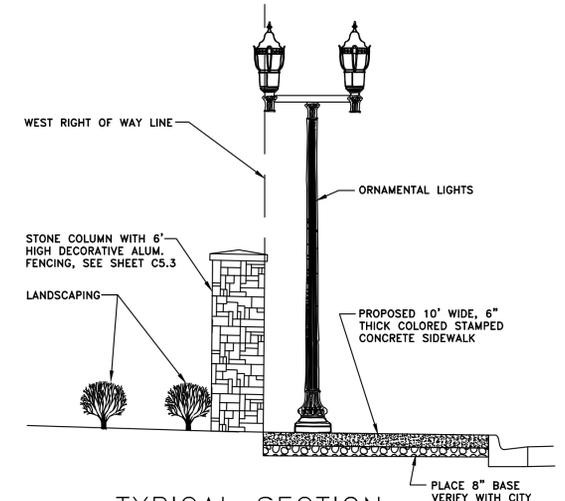
- THE LATEST REVISION OF THE FOLLOWING CODES GOVERN THE DESIGN, DETAILING, FABRICATION AND CONSTRUCTION OF ALL REINFORCED CONCRETE:
 - BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE ACI 318.
 - DETAILS & DETAILING OF CONCRETE REINFORCEMENT ACI 315.
- ALL DEFORMED BAR REINFORCING SHALL BE ASTM A615 GRADE 60.
- ALL CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH (f'c) OF 4500 PSI, 3" TO 5" SLUMP AND A WATER/CEMENTITIOUS RATIO OF 0.45 MAXIMUM. ALL CONCRETE SHALL BE AIR ENTRAINED 6% ±1%.
- ALL CONCRETE MIXES SHALL BE DESIGNED FOR EXPOSURE CLASSES F3, S0, P1 & C2.
- SPLICES FOR DEFORMED BARS SHALL BE CLASS B WITH APPLICABLE INCREASES FOR BAR SPACING, COVER, TOP BAR EFFECT ETC. PER ACI 318.
- CONCRETE SHALL BE TESTED BY AN INDEPENDENT TESTING AGENCY. A SET OF (3) CONCRETE TEST CYLINDERS SHALL BE MADE AND TESTED FOR COMPRESSION STRENGTH AT 7 AND 28 DAYS OR EVERY 50 CUBIC YARDS OF CONCRETE CAST (MINIMUM OF (1) SET PER DAY OF CASTING). ALSO SLUMP AND UNIT WEIGHT TESTS SHALL BE PERFORMED EVERY OTHER TRUCK LOAD. CONTRACTOR MADE CONCRETE TEST CYLINDERS ARE NOT ACCEPTABLE.
- PROVIDE BENT CORNER BARS IN ALL WALLS AND FOOTINGS OF THE SAME SIZE AND NUMBER AS THE CONTINUOUS REINFORCEMENT.

DIVISION 4 - MASONRY

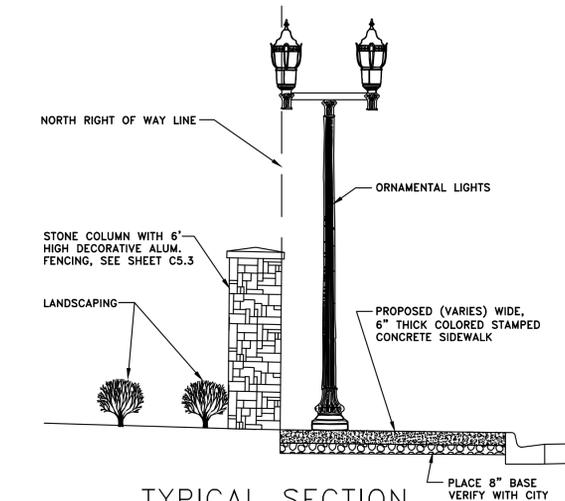
- THE LATEST REVISION OF THE FOLLOWING CODES GOVERN THE DESIGN, DETAILING AND CONSTRUCTION OF ALL MASONRY:
 - BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES: ACI 530.1.
 - SPECIFICATIONS FOR MASONRY STRUCTURES: ACI 530.1.
- ALL MASONRY SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF f'm= 1500 PSI.
- ALL MORTAR SHALL BE TYPE S, PROPORTIONED BY VOLUME ACCORDING TO ASTM C 270.
- ALL GROUT SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 2000 PSI, AND SHALL BE PROPORTIONED BY VOLUME ACCORDING TO ASTM C 476.
- ALL CONCRETE MASONRY UNITS SHALL BE NORMAL WEIGHT ASTM C 90, GRADE N, TYPE 1 UNITS UNLESS NOTED OTHERWISE.
- ALL DEFORMED BAR REINFORCING SHALL BE ASTM A-615 GRADE 60. LAP SPLICES IN WALLS SHALL BE A MINIMUM OF 48 BAR DIAMETERS, UNLESS NOTED OTHERWISE.

DIVISION 5 - METALS-DECORATIVE METAL RAILINGS

- BASIS OF DESIGN " IFENCEUSA INTEGRITY ALUMINUM PRODUCTS, MODEL NAPA VALLEY CLASSIC", (OR APPROVED EQUAL), POWDER COATED ALUMINUM IN GLOSS BLACK FINISH AND INSTALLED AS PER MANUFACTURERS RECOMMENDATIONS. ALL MEMBERS TO BE 6005-T5 ALLOY, MIN. STRENGTH 35,000 PSI. INSTALLATIONS WILL INCLUDE MATCHING 2" SQUARE VERTICAL POST WITH STANDARD CAP AND ONE PIECE SKIRT, (4) 1-1/8" X 1" (.080" WIDTH) NOMINAL HORIZONTAL RAILS, 5/8" SQUARE X .05" PICKETS WITH CLEARANCE OF 3-13/16" BETWEEN. ORNAMENTAL FEATURES (CIRCULAR PICKET) BY FENCING MANUFACTURER. FASTENING AS PER MANUFACTURES RECOMMENDATIONS.



5 TYPICAL SECTION JEFFERSON RIGHT OF WAY
C5.3 NOT TO SCALE



6 TYPICAL SECTION TUSCOLA RIGHT OF WAY
C5.3 NOT TO SCALE

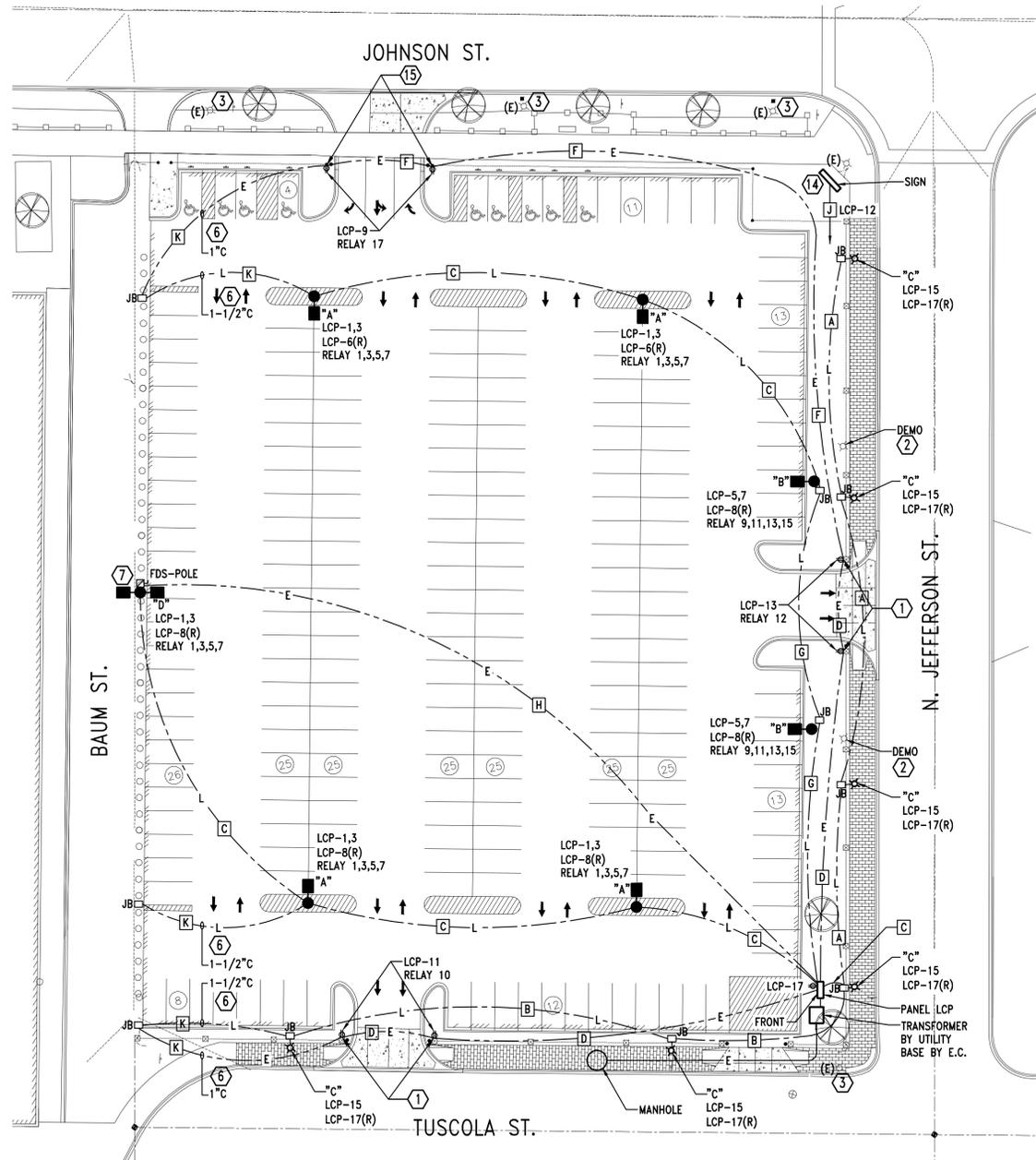
REV. #	DATE	DESCRIPTION	BY
07-16-12		ISSUED FOR BID	JW

STATUS/REVISIONS

WAK Engineers-Architects-Consultants
 William A. Kibbe & Associates, Inc.
 1475 S. Washington Avenue, Saginaw, MI 48601

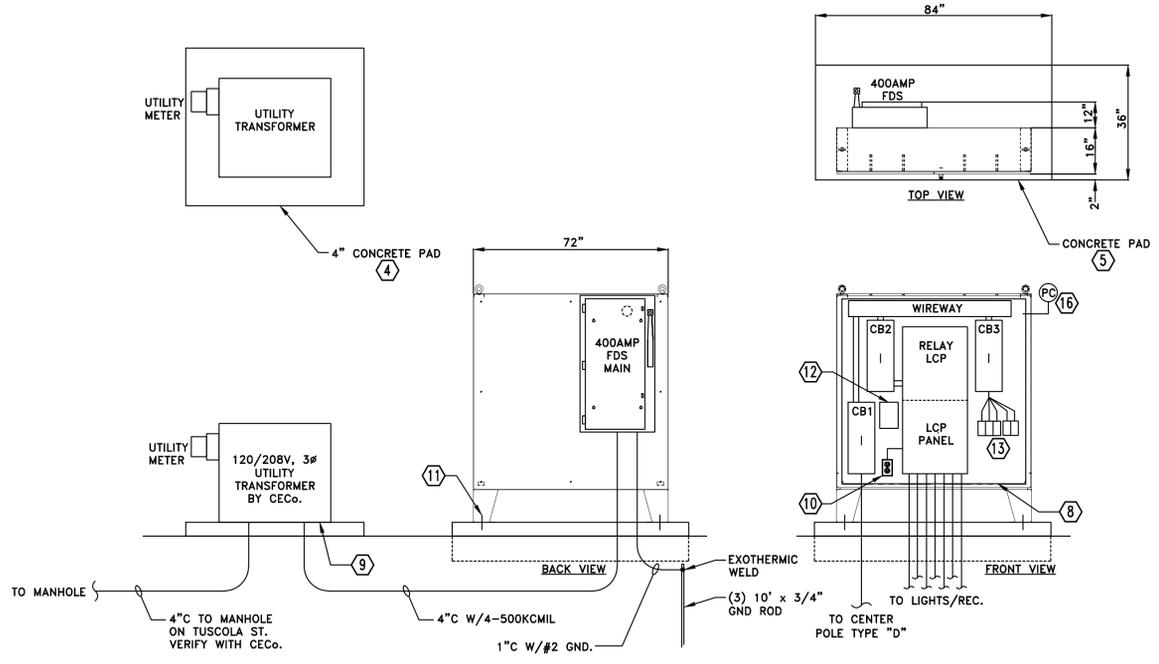
PROJECT:
 PARKING LOT CONSTRUCTION AT:
 400 BLOCK JOHNSON STREET

DRAWN BY: K.NEIGH	SHEET TITLE: MISCELLANEOUS SITE DETAILS
DESIGNED BY: K.NEIGH	
CHECKED BY: K.NEIGH	DRAWING NUMBER: C5.3
APPROVED BY: J.WHEELER	
PROJECT NUMBER: 12-0462-0190	SHEET 8 OF

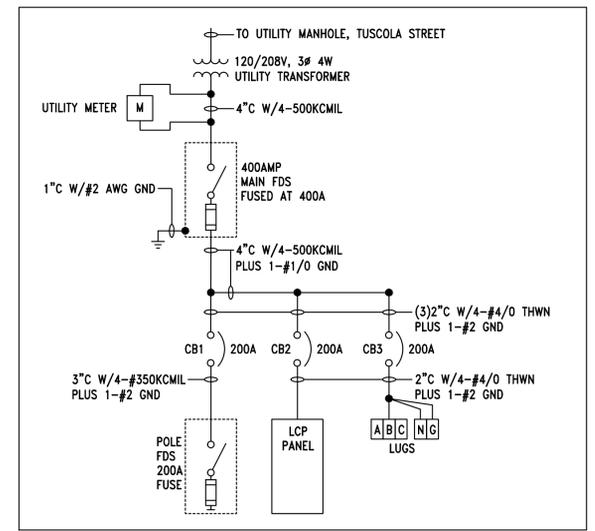


1 JOHNSON STREET PARKING LOT - LIGHTING
 E1.1 SCALE: 1"=30'-0"

TYPE	LAMP IN EA. FIXTURE	BALLAST	VOLTAGE	DESCRIPTION	MANUFACTURER	CATALOG #
A	LED	INCLUDED	UNV	LED AREA LIGHT WITH A MIN. OF 27,700 LUMENS. LESS THAN 285WATTS. TYPE 5 EXTRA WIDE SQUARE DISTRIBUTION. 208 VOLTS. ELECTRONIC DRIVER, WITH HI/LOW OPERATION. DARK BRONZE FINISH. 5100 KELVIN TEMPERATURE LIGHTING. 30" SQUARE STRAIGHT STEEL POLE ON 30" BASE. CONVENIENCE RECEPTACLE AT 3'-6" ABOVE TO OF BASE	MCGRAW EDISON POLE	VTS-B12-LED-E1-5XQ-BZ-2L SSS6A30SF-E1-C(3'6")-G
B	LED	INCLUDED	UNV	LED AREA LIGHT WITH A MIN. OF 27700 LUMENS. LESS THAN 285WATTS. TYPE 4 WITH SPILL CONTROL DISTRIBUTION. 208 VOLTS. ELECTRONIC DRIVER, WITH HI/LOW OPERATION. DARK BRONZE FINISH. 5100 KELVIN TEMPERATURE LIGHTING. 30" SQUARE STRAIGHT STEEL POLE ON 30" BASE. CONVENIENCE RECEPTACLE AT 3'-6" ABOVE TO OF BASE	MCGRAW EDISON POLE	VTS-B12-LED-E1-SL4-BZ-2L SSS6A30SF-E1-C(3'6")-G
C	150 WATT HPS	INCLUDED	UNV	LUMINAIRE HEAD SHALL BE CAST ALUMINUM FINIAL. PRISMATIC ACRYLIC TOP. HYDROFORMED ALUM. PERFORATED REFRACTOR. 2" BRASS DECO BAND. MOLDED TYPE THREE REFRACTOR. 150 WATT BALLAST ASSEMBLY. BLACK FINISH AND 120 VOLT. POLE SHALL BE A TWIN FIXTURE MOUNT STYLE WITH AND STAINLESS STEEL BANDS. 4.5" TOP DIA. FIBERGLASS COMPOSITE INNER CORE. ELASTOMERIC OUTER SHELL 16 FLUTES. WALL = TO 0.28" MIN. TENON TWIN 3" OD 5" EXPOSED. COLOR BLACK. HANDHOLE AND GFI RECEPTACLE AT 12" BLACK 14'-0" HEIGHT POLE PLUS ARMS. ALL PRODUCTS SHALL BE U.L. LISTED AND MEET CITY OF SAGINAW SPECIFICATION.	WHATLEY POLE	WAL/3-150HPS-3-120-ODR-FIN-BLK-RCS XF45-D3M-14-AB-BLK-30-30/50 D3M-BLK BR4-2-BLK BAS-24-BLK
D	LED	INCLUDED	UNV	(2) @ 180 LED AREA LIGHT WITH A MIN. OF 27700 LUMENS. LESS THAN 285WATTS. TYPE 4 WITH SPILL CONTROL DISTRIBUTION. 208 VOLTS. WITH HI/LOW OPERATION. DARK BRONZE FINISH. 5100 KELVIN TEMPERATURE LIGHTING. 30" SQUARE STRAIGHT STEEL POLE ON 30" BASE. CONVENIENCE RECEPTACLE AT 3'-6" ABOVE TO OF BASE	MCGRAW EDISON POLE	(2 @ 180) VTS-B12-LED-E1-SL4-BZ-2L SSS6A30SF-E1-C(3'6")-G



2 ELECTRICAL ENCLOSURE DETAIL
 E1.1 SCALE: NONE
 GENERAL NOTE:
 BOND ALL COMPONENTS IN THE ENCLOSURE PER NEC.



3 ONE-LINE DIAGRAM
 E1.1 SCALE: NONE

WIRE SCHEDULE:

- A 1" W/4-#6 AWG, PLUS 1-#10 AWG GND
- B 1-1/2" W/8-#4 AWG, PLUS 1-#10 AWG GND
- C 1-1/2" W/8-#4 AWG, PLUS 1-#10 AWG GND
- D 1" W/4-#8 AWG, PLUS 1-#10 AWG GND
- F 1" W/2-#8 AWG, PLUS 1-#10 AWG GND
- G 2-1/2" W/16-#4 AWG, PLUS 1-#10 AWG GND
- H 3" W/4-350KCMIL, PLUS 1-#2 AWG GND
- J 1" W/2-#6 AWG, PLUS 1-#10 AWG GND
- K CONDUIT AND PULL STRING

SYMBOLS LEGEND:

- TRANSFORMER
- LCP ENCLOSURE
- SINGLE LUMINAIRE LIGHT POLE
- DOUBLE LUMINAIRE LIGHT POLE
- ⊗ DECORATIVE LIGHTING POLE
- ⊕ GFI DUPLEX RECEPTACLE
- L— UNDER GRADE LIGHTING CABLE AND CONDUIT
- E— UNDER GRADE ELECTRICAL CABLE AND CONDUIT
- JB JUNCTION BOX
- ⊔ FUSED DISCONNECT
- ⊙ PHOTOCELL

ABBREVIATIONS:

- XF TRANSFORMER
- LCP LIGHTING CONTROL PANEL
- PC PHOTOCELL
- FDS FUSED DISCONNECT SWITCH
- CB# CIRCUIT BREAKER
- GND GROUND
- NEC NATIONAL ELECTRIC CODE
- (R) CIRCUIT FOR RECEPTACLE

KEYED NOTES:

- | TAG | DESCRIPTION |
|-----|---|
| 1 | REFER TO DETAIL 5 SHT. C5.3 FOR MOUNTING LOCATION OF RECEPTACLE. |
| 2 | DISCONNECT AND REMOVE EXISTING LIGHT POLE AND BASE WITH ALL ASSOCIATED OVERHEAD WIRE TO SOURCE. REFER TO UTILITY FOR OWNERSHIP. |
| 3 | EXISTING LIGHT POLE TO REMAIN. |
| 4 | 4" CONCRETE PAD 4" LARGER ON ALL SIDES OF TRANSFORMER. VERIFY WITH UTILITY EXACT SIZE. (FOR BID MAKE 5'x5') |
| 5 | 6" CONCRETE PAD ABOVE GRADE AND 12" BELOW GRADE. |
| 6 | EMPTY CONDUIT FOR FUTURE PARKING LOT. |
| 7 | MOUNT POLE FDS TO LIGHT POLE BASE AND "H" FRAME UNISTRUT SYSTEM. TOP OF FDS @ 60". |
| 8 | PROVIDE (2) 4" SLEEVES WITH CAPS THROUGH BOTTOM FOR EVENT SWITCH CB3. |
| 9 | PROVIDE GROUND PAD PER CECo REQUIREMENTS AND PROVIDE CONCRETE PAD. |
| 10 | PROVIDE RECEPTACLE INSIDE ENCLOSURE. CIRCUIT: LCP-17. |
| 11 | BOLT ENCLOSURE TO CONCRETE, (2) ON EACH PEDESTAL. |
| 12 | HEATER/FAN INSTALLED INSIDE ENCLOSURE TO CIRCULATE AIR. |
| 13 | POWER DISTRIBUTION LUGS. |
| 14 | VERIFY ALL REQUIREMENTS WITH SIGN MANUFACTURER. |
| 15 | MOUNT RECEPTACLE ON STEEL BOLLARD. |
| 16 | PROVIDE PHOTOCELL COMPATIBLE WITH RELAY PANEL LOW VOLTAGE. |

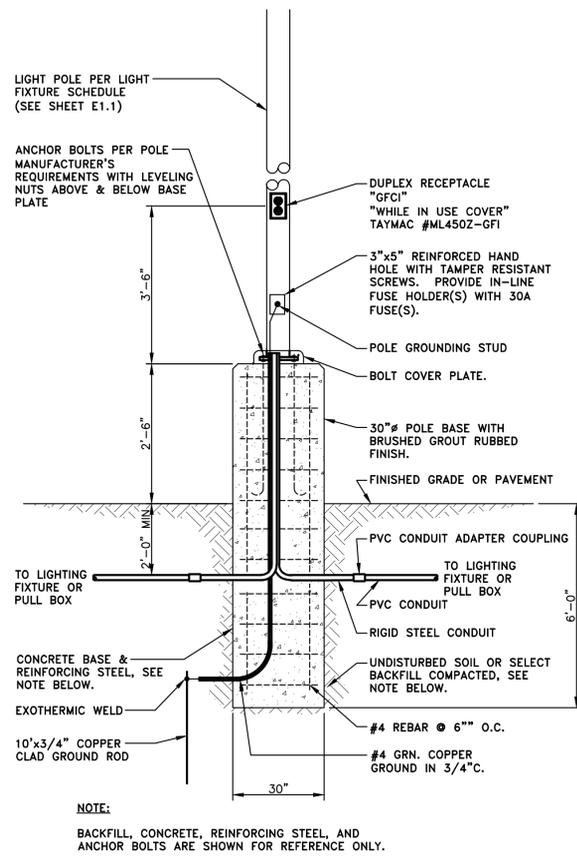
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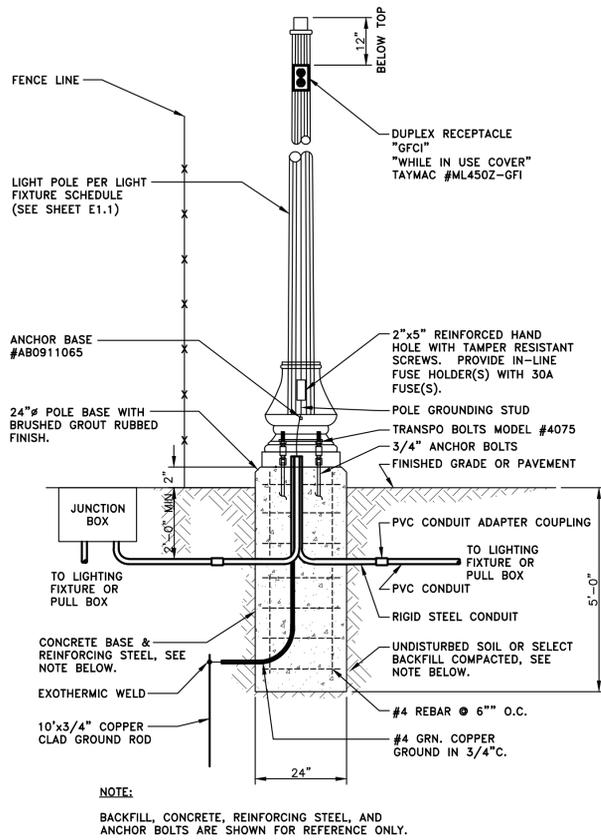
WAK Engineers-Architects-Consultants
 William A. Kibbe & Associates, Inc.
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PROJECT:
 PARKING LOT CONSTRUCTION AT:
 400 BLOCK OF JOHNSON STREET
 SAGINAW, MICHIGAN

DRAWN BY: B.J. RIEBENACK	SHEET TITLE: SITE LIGHTING AND ELECTRICAL PLAN
DESIGNED BY: P.A. TANNER	
CHECKED BY: P.A. TANNER	DRAWING NUMBER: E1.1
APPROVED BY: T.H. MINER	
PROJECT NUMBER: 12-0462-0191	



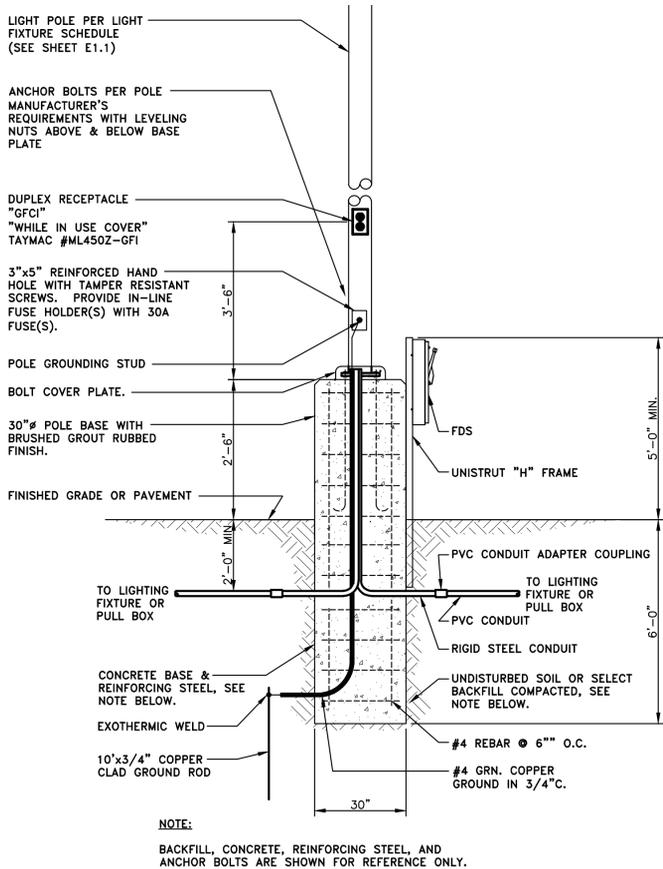
NOTE:
BACKFILL, CONCRETE, REINFORCING STEEL, AND ANCHOR BOLTS ARE SHOWN FOR REFERENCE ONLY.



NOTE:
BACKFILL, CONCRETE, REINFORCING STEEL, AND ANCHOR BOLTS ARE SHOWN FOR REFERENCE ONLY.

1 TYPE A & B LIGHT POLE BASE DETAIL
E1.2 SCALE: NONE

2 DECORATIVE TYPE C LIGHT POLE BASE DETAIL
E1.2 SCALE: NONE



NOTE:
BACKFILL, CONCRETE, REINFORCING STEEL, AND ANCHOR BOLTS ARE SHOWN FOR REFERENCE ONLY.

3 TYPE D LIGHT POLE/FDS FRAME DETAIL
E1.2 SCALE: NONE

TAG	DESCRIPTION	MANUFACTURER	CATALOG #
SCE	72" X 72" X 18" ENCLOSURE WITH A 12" FLOOR STANDS, NEMA TYPE 12/3R, DUAL HANDLE AND LOCKING SYSTEM, SEALED AND GASKETED, PANEL MOUNTED 800 FAN/HEATER WITH THERMOSTAT 0-100 DEGREE F., AUTO SWITCH FOR FAN, OVERLAPPING 2 DOORS ENCLOSURE, BACK BOARD, FLANGE TROUGH COLLAR, KEYLOCKING/PADLOCKING HANDLE, CONCEALED HINGE, PANEL SUPPORTS, COLLAR STUDS, GROUND STUD ON DOOR, FINISH ANSI-61 GRAY POWDER COAT, AND INDUSTRY STANDARD IS3.	SAGINAW CONTROL	SCE727216ULP-SCE72P72-SCE-HF8001B (DUAL HANDLE LOCKING)
MAIN FDS	STAINLESS STEEL 400 AMP FUSED DISCONNECT SWITCH WITH NUETRAL BUSS AND GROUND BUS, NEMA 4X CONSTRUCTION, AND LOCKABLE HANDLE. FUSED AT 400 AMPS CLASS R.	SQUARE D	H325NDS-H600SN-PKOGTA2
CB1	200 AMP 3 POLE CIRCUIT BREAKER 100% RATED AND NEMA 1 ENCLOSURE WITH NUETRAL AND GROUND BUSS, FIXED HANDLE PADLOCKING DEVICE, LUGS FOR OVER SIZED CABLE, AND U.L. LISTED.	SQUARE D	JDL36200C-S37422-AL250JD-J250S-SN400LA-PKOGTJ25
CB2	200 AMP 3 POLE CIRCUIT BREAKER 100% RATED AND NEMA 1 ENCLOSURE WITH NUETRAL AND GROUND BUSS, FIXED HANDLE PADLOCKING DEVICE, LUGS FOR OVER SIZED CABLE, AND U.L. LISTED.	SQUARE D	JDL36200C-S37422-J250S-SN400LA-PKOGTJ250
CB3	200 AMP 3 POLE CIRCUIT BREAKER 100% RATED AND NEMA 1 ENCLOSURE WITH NUETRAL AND GROUND BUSS, FIXED HANDLE PADLOCKING DEVICE, LUGS FOR OVER SIZED CABLE, AND U.L. LISTED.	SQUARE D	JDL36200C-S37422-J250S-SN400LA-PKOGTJ250
POLE FDS	200 AMP 3 POLE FUSED DISCONNECT SWITCH, NEMA 4X, GROUND AND NUETRALBUSS AND U.L. LISTED. FUSED AT 200A CLASS R TYPE FUSE	SQUARE D	H324DS-SN20A-PKOGTA2
LCP	INTEGRATED BREAKER AND RELAY ENCLOSURE, TOUCH SCREEN CONTROL, PROGRAMMING STORED IN NON VOLATILE MEMORY, 30 AMP RELAYS (2POLE ENCLOSURE, UP TO 18 RELAYS, 120/208 3 PHASE MAIN LUG ONLY INPUT, OPERATING TEMPERATURE 32-122 DEG F, MASTER OVERRIDE ON/OFF/AUTO OR PC SOFTWARE, ASTRONIC CLOCK, 0-10V INPUTS, DIGITAL SWITCH INPUT, INTEGRAL 20A BREAKERS, TIMED INPUTS, ETHERNET PORTDMX INTERFACE AND SQUARE D QOB BREAKERS.	COOPER CONTROL CONTROL KEEPER SQUARE D EQUAL	CKMB-120V3P-(SQD)-18-0-9-0-5-S-T-COM1-AN1-
PWR DIST LUGS	TERMINAL BLOCKS LOCATED INSIDE THE SCE ENCLOSURE, (1) 3 POLE UNIT AND (1) TWO POLE UNITS WITH CLEAR COVERS, 2 POLE UNIT FOR NUETRAL AND GROUND TERMINATIONS.	SQUARE D	(1) LBA365202-LB53 (1) LBA265202-LB52
JB	COMPOSITE CONCRETE OPEN BOTTOM JUNCTION BOX OF SIZE 12" X 17" WITH COVER AND STAINLESS STEEL FASTENERS. COVER COLOR OF GRAY AND ENGRAVING IS "LIGHTING"	QUAZITE	PG1118BG12-PG1118CG00 GRAY-
DIGITAL SW	24V DC SUPPLY VOLTAGE VIA THE NETWORK, CLASS 2 WIRING, ALL PLASTIC CONSTRUCTION, 6 BUTTON UNIT OVERRIDE AND COMPATIBLE WITH THE RELAY SYSTEM.	COOPER CONTROL GREENGATE	GDS-6-TSB-V-CE-BLANK

PANELBOARD SCHEDULE											
PANEL : LCP-PANEL		MOUNTING : SURFACE		LOCATION : ENCLOSURE		AIC : 22,000		MIN.		O.C. PROT. : MLO	
										VOLTAGE : 208/120	
										BUSSING : 200A	
										3 PHASE, 4 WIRE	
OCT NO	ITEM OR AREA SERVED	O.C. PROT	LTG WATTS	REC WATTS	MTR WATTS	PH	MTR WATTS	REC WATTS	LTG WATTS	O.C. PROT	ITEM OR AREA SERVED
1	PARKING LOT LIGHTS	202	865			A				202	PARKING LOT LIGHTS
3	NORTH & SOUTH & CTR	-	865			B				-	WEST
5	PARKING LOT LIGHTS	20/2	285			C		720		20/1	POLE RECEPT NORTH & EAST
7	EAST	-	285			A		540		20/1	POLE RECEPT SOUTH & CTR
9	RECEPT. ENTRY NORTH	20/1		360		B				20/1	POLE RECEPT WEST
11	RECEPT. ENTRY SOUTH	20/1		360		C		1000		20/1	SIGN
13	RECEPT. ENTRY EAST	20/1		360		A				20/1	SPARE
15	STREETSCAPE LIGHTS	20/1	875			B				20/1	SPARE
17	STREETSCAPE REC	20/1		1440		C		800		20/1	HEATER

LOAD	CONN KW LOAD	DEMAND FACTOR %	DEMAND KW LOAD
LIGHTING	3.2	125%	3.9
REC.	5.6	50%	5.6
MOTORS	0.0	100%	0.0
TOTALS	8.7		9.5

LOAD	CONN. KW/PHASE	DEMAND	DEMAND KW LOAD
LIGHTING			
A	1.1	125%	1.4
B	1.7	125%	2.2
C	0.3	125%	0.4
REC.			
A	0.9	50%	0.9
B	0.4	50%	0.4
C	4.3	50%	4.3
MOTORS			
A	0.0	100%	0.0
B	0.0	100%	0.0
C	0.0	100%	0.0
TOTALS			
A	2.0		2.3
B	2.1		2.5
C	4.6		4.7
TOTAL	8.7		9.5

LOAD		FEEDER VOLTAGE : 208/120	
LIGHTING	24.27	AMPS	
FED FROM:			
FEEDER LENGTH:			
INTERRUPT. CAPACITY:	22,000	AMPS	

RELAY NO.	LOAD DESCRIPTION	PANEL	OCT NO.	# POLES	LOCATION
1.3	PARKING LOT LIGHTS N-S & CTR	LCP	1.3	2	N L
5.7	PARKING LOT LIGHTS N-S & CTR	LCP	1.3	2	N H
9.11	PARKING LOT LIGHTS EAST	LCP	5.7	2	S L
13.15	PARKING LOT LIGHTS EAST	LCP	5.7	2	S H
2.4	PARKING LOT LIGHTS WEST (NOT USED)	LCP	2.4	2	W L
6.8	PARKING LOT LIGHTS WEST (NOT USED)	LCP	2.4	2	W H
17	NORTH ENTRY RECEPT	LCP	9	1	N
10	SOUTH ENTRY RECEPT	LCP	11	1	S
12	EAST ENTRY RECEPT	LCP	13	1	E
14	STREETSCAPE LIGHTS	LCP	15	1	
16	SIGN	LCP	12	1	
18	SPARE	LCP	1	1	

PANEL : LCP						
MOUNTING : SURFACE						
LOCATION : ENCLOSURE						
CONTROL CIRCUIT LCP-18						
RELAY NO.	LOAD DESCRIPTION	PANEL	OCT NO.	# POLES	LOCATION	
1.3	PARKING LOT LIGHTS N-S & CTR	LCP	1.3	2	N	L
5.7	PARKING LOT LIGHTS N-S & CTR	LCP	1.3	2	N	H
9.11	PARKING LOT LIGHTS EAST	LCP	5.7	2	S	L
13.15	PARKING LOT LIGHTS EAST	LCP	5.7	2	S	H
2.4	PARKING LOT LIGHTS WEST (NOT USED)	LCP	2.4	2	W	L
6.8	PARKING LOT LIGHTS WEST (NOT USED)	LCP	2.4	2	W	H
17	NORTH ENTRY RECEPT	LCP	9	1	N	
10	SOUTH ENTRY RECEPT	LCP	11	1	S	
12	EAST ENTRY RECEPT	LCP	13	1	E	
14	STREETSCAPE LIGHTS	LCP	15	1		
16	SIGN	LCP	12	1		
18	SPARE	LCP	1	1		

REV. #	DATE	DESCRIPTION	BY
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 400 BLOCK OF JOHNSON STREET
 SAGINAW, MICHIGAN

DRAWN BY: B.J. RIEBENACK	SHEET TITLE: ELECTRICAL DETAILS AND SCHEDULES
DESIGNED BY: P.A. TANNER	
CHECKED BY: P.A. TANNER	DRAWING NUMBER: E1.2
APPROVED BY: T.H. MINER	
PROJECT NUMBER: 12-0462-0191	SHEET 1 OF 1