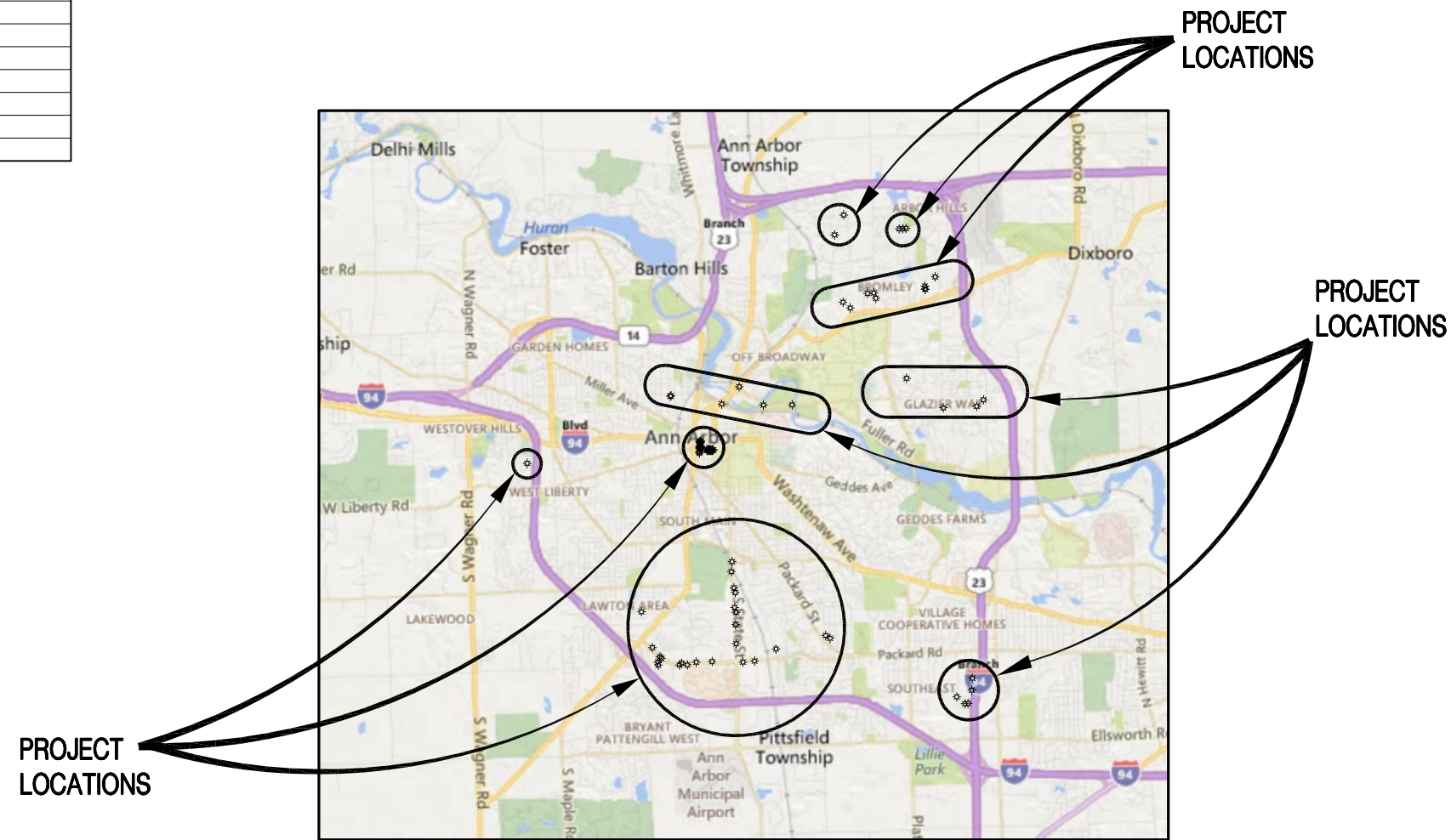


CITY OF ANN ARBOR WASHTENAW COUNTY, MICHIGAN ITB NO. 4557 2019 STREETLIGHT REPLACEMENT

INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
1	COVER SHEET
2	INDEX SHEET
3	LEGEND
4	NOTE SHEET
5	MISCELLANEOUS DETAILS
6	ELECTRICAL DETAILS, LIGHT FIXTURE SCHEDULE
7	ELECTRICAL DETAILS
8-24	REMOVAL & CONSTRUCTION PLANS




LOCATION MAP
Not to Scale



GENERAL PROVISIONS

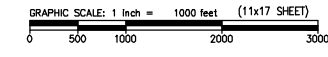
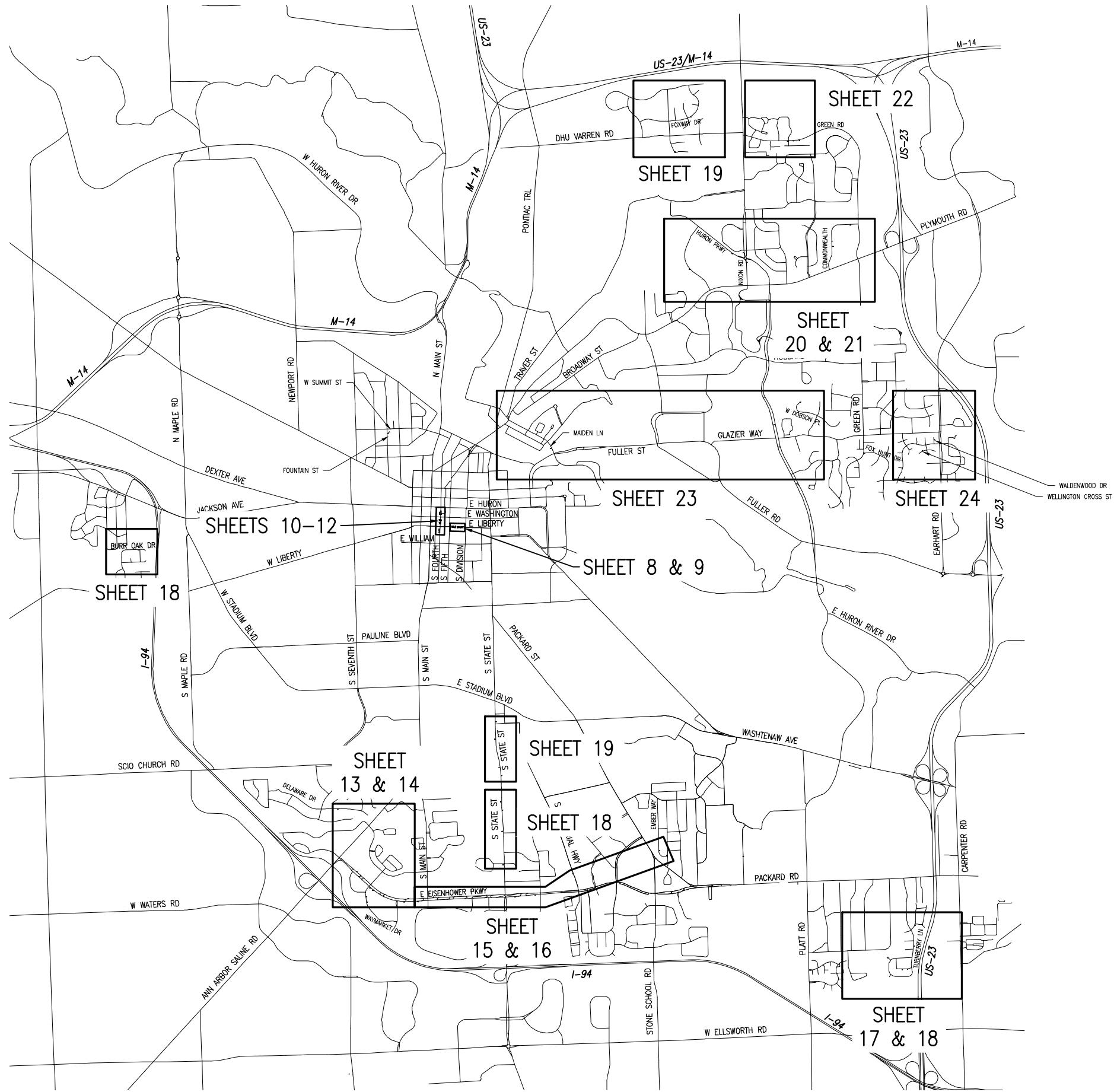
THE LOCATION OF ALL PUBLIC UTILITIES SHOWN ON THESE PLANS IS TAKEN FROM THE BEST AVAILABLE DATA. THE CITY OF ANN ARBOR WILL NOT BE RESPONSIBLE FOR ANY OMISSION OR VARIATION FROM THE LOCATIONS SHOWN. PURSUANT TO ACT 174 OF THE P.A. OF 2013, AS A CONDITION OF THIS CONTRACT, NOTICE SHALL BE GIVEN TO MISS DIG PRIOR TO UNDERGROUND WORK TO BE PERFORMED IN ACCORDANCE WITH THIS CONTRACT, PHONE (800) 482-7171 (OR 811). UTILITY SERVICE CONNECTIONS ARE NOT SHOWN ON THE PLANS AND ARE NOT THE RESPONSIBILITY OF THE CITY OF ANN ARBOR.

NO ELEVATION DATA WERE COLLECTED IN THIS PROJECT.

CONTRACT FOR: REMOVAL, REPLACEMENT, AND REPAIR OF STREETLIGHT COMPONENTS INCLUDING FOUNDATIONS, BOLTS, POLES, LUMINAIRES, AND FIXTURES.	
	Advancing Communities 34000 Plymouth Road Livonia, MI 48150 p (734) 522-6711 f (734) 522-6427
PREPARED UNDER THE SUPERVISION OF:	
60848	Registration No.
GEORGE A. TSAKOFF, P.E.	Date
REVISIONS	
11-28-18 BID SET	
PROJECT NO. 0028-18-0040	SHEET NO. 1 OF 24

P:\0000_0100\0028180040_AA_Street_Lit_Replace_FY_19_CIP\Drawings\Civil\Misc\18040COV.dwg

DRAWING PATH: P:\0000_01202028180402_AA_Street_LI_Replace_FY_19_CIP\Drawings\Civil\Misc\18024INDEX.dwg Nov 27, 2018 8:58am



Know what's below.
Call before you dig.

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34000 Plymouth Road
Livonia, MI 48150
P (734) 522-6711 | F (734) 522-6427
OHM-ADVISORS.COM

REVISIONS:
11-20-18 BID SET

DATE: 02-15-2019
PROJ. NO.: 002-18-040
PROJ. NAME: 4557 2019 STREET LIGHT REPLACEMENT
CITY: ANN ARBOR
COUNTY: WASHTENAW
SCALE: AS NOTED
VERT. DATUM: NAVD83
HORIZ. DATUM: NAD83

CITY OF ANN ARBOR
ITB NO. 4557 2019 STREET LIGHT REPLACEMENT
INDEX SHEET

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WATER & SEWER UTILITY SYMBOLS

EXISTING

- ST STORM MANHOLE
- SQUARE CATCH BASIN
- ROUND CATCH BASIN
- CULVERT
- CULVERT W/O END SECTION
- CULVERT W/END SECTION
- S SANITARY MANHOLE
- CO CLEAN OUT
- GW GATE VALVE & WELL
- GATE VALVE & BOX
- W WATER STOP BOX
- FIRE HYDRANT
- MP METER PIT
- WATER METER
- SH SPRINKLER HEAD
- IRRIGATION VALVE

PROPOSED

- STORM MANHOLE
- INLET/CATCH BASIN
- CULVERT END SECTION
- SANITARY MANHOLE
- GV&W GATE VALVE & WELL
- GV&B GATE VALVE & BOX
- TSV&W TAPPING SLEEVE VALVE & WELL
- TSV&B TAPPING SLEEVE VALVE & BOX
- FIRE HYDRANT

REAL ESTATE SYMBOLS

- CONTIGUOUS PROPERTY SYMBOL
- PARCEL NUMBER BOX
- NO ROW IMPACTS

MISCELLANEOUS UTILITY SYMBOLS

EXISTING

- GUY WIRE
- GP GUY POLE
- U UTILITY POLE
- U UTILITY POLE W/LIGHT
- LIGHT/DECOR LAMP POLE
- FLOOD LIGHT
- GAS VALVE
- GAS VENT
- GAS METER
- GAS RISER
- TRAFFIC SIGNAL
- PEDESTRIAN RISER
- TRANSFORMER PAD
- U PRIVATE UTILITY MANHOLE
- R RAILROAD CROSSING
- E ELECTRIC METER
- PB PHONE BOOTH
- TS TRAFFIC SIGNAL CONTROLLER
- HAND HOLE
- E ELECTRIC RISER
- T TELEPHONE RISER
- C CABLE TV RISER
- W MONITORING WELL
- UNDERGROUND MARKER

MISCELLANEOUS SYMBOLS

EXISTING

- RIPRAP
- SIGN
- FLOW DIRECTION
- STUMP
- WETLAND
- CONIFEROUS TREE
CL 1 1" TO 5"
CL 2 6" TO 17"
CL 3 18" TO 35"
CL 4 36" AND UP
- DECIDUOUS TREE
- CONIFEROUS SHRUB
- DECIDUOUS SHRUB
- SB# SOIL BORING
- SECTION CORNER
- MON MONUMENT
- IRON ROD/PIPE
- PK# PK NAIL
- BM# BENCHMARK
- TP# TRAVERSE POINT
- MAIL/NEWSPAPER BOX
- FP FLAG POLE
- POST

HAZARDOUS OR FLAMMABLE MATERIAL USED WITH UNDERGROUND GAS & ELECTRICAL LINES

CAUTION - CRITICAL UNDERGROUND UTILITY USED WITH TELEPHONE & FIBER OPTIC LINES

PROPOSED

- RIPRAP
- SIGN
- FLOW DIRECTION
- STRUCTURE NUMBER
WM SAN STM
- ADA SIDEWALK RAMP

UTILITY PATTERN

EXISTING

- ELEC ELECTRICAL *
- G (COMPANY) GAS GAS/OIL
- (COMPANY) CABLE/TEL CABLE/TELEPHONE *
- FIBER OPTIC FIBER OPTIC *
- 12" WM WATER
- 12" SAN SANITARY
- 12" STM STORM

PROPOSED

- 12" → STORM/SANITARY/WATER
 - 12" PRIMARY UTILITY WILL HAVE A CONTINUOUS LIFESTYLE, WITH THE SECONDARY UTILITY MATCHING ITS RESPECTIVE EXISTING UTILITY LIFESTYLE
- *OH = OVERHEAD , UG = UNDERGROUND

ROW PATTERN

EXISTING

- ROW ROW
- SECTION SECTION
- PROPERTY/PARCEL

PROPOSED

- ROW ROW

TOPO PATTERN

EXISTING

- HEDGE/TREE
- FENCE
- GUARDRAIL
- CENTERLINE OF DITCH
- RAILROAD
- WETLAND/EDGE OF WATER

PROPOSED

- GRADING LIMIT (SLOPE STAKE)
- CENTERLINE OF DITCH
- GUARDRAIL
- FENCE

REMOVAL LEGEND

- SIDEWALK REMOVAL
- HMA SURFACE REMOVAL
- PAVEMENT REMOVAL
- COLD MILLING HMA SURFACE
- HMA BASE CRUSHING AND SHAPING
- EXCAVATION, EARTH, MODIFIED
- CURB AND GUTTER, REM
- TREE, REM
- S-XXXXXX SALVAGE
- B-XXXXXX BULKHEAD
- A-XXXXXX ABANDON
- R-XXXXXX REMOVE
- ADJ-XXXXXX ADJUST
- REL-XXXXXX RELOCATE
- REC-XXXXXX RECONSTRUCT
- R B/O-XXXXXX REMOVE BY OTHERS
- ADJ B/O-XXXXXX ADJUST BY OTHERS
- REL B/O-XXXXXX RELOCATE BY OTHERS

IF NECESSARY FOR CLARITY

- S SALVAGE
- B BULKHEAD
- A ABANDON
- C CLEARING
- R REMOVE
- REL RELOCATE
- REC RECONSTRUCT
- REL B/O RELOCATE BY OTHERS
- ADJ B/O ADJUST BY OTHERS

SPECIAL LEGEND

- 25-XXXXX EXISTING STREET LIGHT & FACILITY ID
- PROPOSED STREET LIGHT, TYPE LP1/SL1
- PROPOSED STREET LIGHT, TYPE LP2/SL2
- PROPOSED STREET LIGHT, TYPE LP3/SL3

NOTE: REFERENCE REMOVAL AND CONSTRUCTION PLAN SHEETS FOR REQUIRED WORK

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REVISIONS:
11-26-18 BID SET

CITY OF ANN ARBOR
ITB NO. 4557 2019 STREET LIGHT REPLACEMENT
LEGEND

DRAWING PATH: P:\0000_01000\028180040_AA_Street_LL_Replaces_FY_19_CIP\Drawings\Civil\Misc\180040COV.dwg Nov 27, 2018 - 6:58pm

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CONSTRUCTION NOTES

- ALL WORK SHALL CONFORM TO THE LATEST REVISIONS OF THE CITY OF ANN ARBOR STANDARD SPECIFICATIONS AND THE MICHIGAN DEPARTMENT OF TRANSPORTATION (MDOT) 2012 STANDARD SPECIFICATIONS FOR CONSTRUCTION AS APPLICABLE.
- DRIVEWAYS AND ENTRANCES TO BUILDINGS, REAL PROPERTY, AND THE LIKE SHALL NOT BE BLOCKED EXCEPT FOR SHORT DURATIONS AND ONLY WHEN APPROVED BY THE ENGINEER. VEHICULAR AND PEDESTRIAN ACCESS SHALL BE MAINTAINED AT ALL TIMES.
- LOCATION AND DEPTH OF EXISTING UTILITIES AND SERVICE LEADS AS DEPICTED ON THE PLANS ARE APPROXIMATE AND SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AND ARE TO BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO PERFORMING THE WORK. IT IS THE CONTRACTOR'S RESPONSIBILITY TO EXCAVATE AHEAD AND DETERMINE THE PRECISE HORIZONTAL AND VERTICAL LOCATION OF THESE UTILITIES. THE CONTRACTOR SHALL REPORT IN WRITING ANY CONFLICTS SO THAT THE ENGINEER MAY DETERMINE AN APPROPRIATE COURSE OF ACTION. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE RELATED CONTRACT ITEMS OF WORK. ANY DAMAGE TO UTILITIES IS THE CONTRACTOR'S RESPONSIBILITY TO REPAIR AS NECESSARY.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ANY DELAYS, DAMAGES, COSTS AND/OR CHARGES INCURRED DUE TO AND/OR BY REASON OF ANY UTILITY, STRUCTURE, FEATURES AND/OR SITE CONDITION, WHETHER SHOWN ON THE PLANS OR NOT. THE CONTRACTOR SHALL REPAIR AND/OR REPLACE, AT ITS SOLE EXPENSE, TO AS GOOD OR BETTER CONDITION, ANY AND ALL UTILITIES, STRUCTURE, FEATURES AND/OR SITE CONDITIONS WHICH ARE IMPACTED BY REASON OF THE WORK, OR INJURED BY ITS OPERATIONS, OR DURING THE OPERATIONS OF ITS SUBCONTRACTORS OR SUPPLIERS.
- NO EXTRA PAYMENTS OR ADJUSTMENTS TO UNIT PRICES WILL BE MADE FOR DAMAGES, DELAYS, COSTS AND/OR CHARGES DUE TO EXISTING UTILITIES, STRUCTURES, FEATURES AND/OR SITE CONDITIONS NOT SHOWN OR BEING INCORRECTLY SHOWN OR REPRESENTED ON THE PLANS.
- DURING NON-WORKING HOURS ANY OPEN TRENCH, EXCAVATION SHALL BE PROPERLY SECURED WITH PROTECTIVE FENCING AND TEMPORARY COVER. TEMPORARY COVER(S) OVER SANITARY CHAMBERS SHALL BE CAPABLE OF WITHSTANDING THE WEIGHT OF A HUMAN. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE ITEM OR WORK "GENERAL CONDITIONS".
- TREES EXIST IN SOME AREAS WITHIN THE PROJECT LIMITS. ALL TREES SHALL BE PRESERVED AND PROTECTED AS SHOWN ON THE DRAWINGS AND AS INDICATED IN THE SPECIFICATIONS, UNLESS OTHERWISE SHOWN FOR REMOVAL. TREE TRIMMING WHERE REQUIRED WILL BE PERFORMED BY THE CITY OF ANN ARBOR WITH ADVANCE NOTICE.
- THE CONTRACTOR SHALL BACKFILL EXCAVATIONS IN ACCORDANCE WITH TRENCH DETAIL(S) SPECIFIED ON THE PLANS. THIS WORK WILL NOT BE CONSIDERED ADDITIONAL AND SHALL BE INCLUDED IN THE APPROPRIATE ITEM OF WORK.
- THE CONTRACTOR SHALL MAINTAIN ALL VEHICLE AND PEDESTRIAN ACCESS THROUGHOUT THE COURSE OF CONSTRUCTION.
- ALL CASTINGS AND FITTINGS REMOVED DURING CONSTRUCTION ARE THE PROPERTY OF THE CITY OF ANN ARBOR. THE CONTRACTOR, WITHIN 48 HOURS, SHALL DELIVER THEM TO THE CITY OF ANN ARBOR W.R. WHEELER SERVICE CENTER LOCATED AT 4251 STONE SCHOOL ROAD. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE RELATED ITEMS OF WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTINUOUS MAINTENANCE OF THE TEMPORARY TRAFFIC CONTROL DEVICES AND SOIL EROSION CONTROL MEASURES WITHIN THE CONSTRUCTION AREA AND APPROACHES TO PROJECT SITE, UNTIL THE FINAL COMPLETION OF THE PROJECT. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE RELATED ITEM OF WORK.
- THE LOCATION OF MATERIAL STOCK PILES AND ON-SITE STAGING AREAS TO BE APPROVED BY THE ENGINEER. ANY MATERIALS STOCKPILED OR STORED SHALL NOT CREATE AN EROSION PROBLEM, INTERFERE WITH DRAINAGE, OR CREATE INSUFFICIENT SIGHT DISTANCE.
- EXISTING STREET NAME, GUIDE, REGULATORY SIGNS, MAILBOXES, BIKE HOOPS, ETC., WHICH CONFLICT WITH THE PROPOSED CONSTRUCTION, SHALL BE REMOVED PRIOR TO CONSTRUCTION, STORED IN A MANNER WHICH WILL PREVENT DAMAGE, AND RE-SET IN LOCATIONS AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE ITEM OF WORK "GENERAL CONDITIONS".

SOIL EROSION CONTROL NOTES

- ALL EROSION CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE CITY OF ANN ARBOR REQUIREMENTS AND PROJECT SPECIFICATIONS. EROSION CONTROL MEASURES SHALL BE INCIDENTAL TO THE PROJECT.
- CONTRACTOR SHALL INSERT FILTER BAG ON AN INLET THAT IS ALONG THE FLOW OF DRAINAGE IN THE VICINITY OF THE WORK AREA.
- ANY EROSION OR SEDIMENT FROM WORK ON THIS SITE SHALL BE CONTAINED ON THE SITE AND NOT ALLOWED TO COLLECT ON ANY INLETS IN THE VICINITY OF THE WORK AREA.
- CONTRACTOR SHALL APPLY TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES AS REQUIRED AND AS DIRECTED ON THESE PLANS. CONTRACTOR SHALL REMOVE TEMPORARY MEASURES AS SOON AS WORK IN THE AREA IS COMPLETED.

MAINTENANCE OF TRAFFIC

- ALL MOT DEVICES SHALL CONFIRM TO MMUTCD.
- CONTRACTOR TO USE SHOULDER CLOSURE AND PARKING LANE CLOSURES TO PERFORM WORK, PAID FOR AS PART OF TEMPORARY TRAFFIC CONTROL (LSUM). CONTRACTOR TO OBTAIN CITY PERMIT FOR EACH CLOSURE.
- ALL FLAGGING OPERATIONS SHALL BE PAID FOR AS PART OF TEMPORARY TRAFFIC CONTROL (LSUM).
- CONTRACTOR SHALL COORDINATE WITH THE CITY OF ANN ARBOR (734-794-6350) ABOUT WORK IN THE AREAS AND ANY BLOCKING OF PARKING SPACES.

GENERAL ELECTRICAL NOTES

- ALL ELECTRICAL EQUIPMENT AND INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE CURRENT NATIONAL ELECTRICAL CODE AND ANY LOCAL AMENDMENTS.
- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACQUISITION OF AN ELECTRICAL PERMIT AND SCHEDULING OF THE NECESSARY INSPECTIONS.
- ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS.
- A BOUND MANUAL SHALL BE SUBMITTED UPON COMPLETION WITH MAINTENANCE INSTRUCTIONS, PARTS LISTS, AND MANUFACTURER'S WARRANTIES. ALSO, A WARRANTY FROM THE ELECTRICAL CONTRACTOR SHALL BE INCLUDED IN THIS MANUAL; ONE COPY OF THE RECORD DRAWINGS AND FINAL INSPECTION REPORT SHALL BE INCLUDED AT THIS TIME.
- THE CONTRACTOR SHALL INSTRUCT THE OWNER OR THE OWNER'S REPRESENTATIVE IN THE OPERATION AND MAINTENANCE OF THE ELECTRICAL SYSTEM.
- WIRING DEVICES SHALL BE COMMERCIAL SPECIFICATION GRADE, COLOR TO MATCH EXISTING. INTERIOR DEVICE PLATES TYPE AND COLOR SHALL MATCH EXISTING. PROVIDE WEATHERPROOF WHILE IN USE COVER FOR EXTERIOR RECEPTACLES.
- IDENTIFY EACH JUNCTION BOX AND RECEPTACLE WITH THE PANEL & CIRCUIT NUMBER. COMPLETE EACH PANEL CIRCUIT DIRECTORY.
- THE INSTALLATION SHALL NOT ALLOW WIRE NUTS. ALL CONNECTION NEEDS TO BE WITH SPLIT BOLTS, SCOTCHFIL ELECTRICAL INSULATION PUTTY AND TAPE.
- 3" CONDUITS SHALL BE NMRC SCHEDULE 80. ALL CONDUITS SHALL HAVE BELLED ENDS.
- ALL WIRE SHALL BE THHN/THWN.
- THE POLES SHALL UTILIZE GALVANIZED STEEL ANCHOR BOLTS. NO BREAKAWAY BASES ARE REQUIRED.
- ALL FASTENERS SHALL HAVE ANTI-SEIZE ADDED. FAILURE TO COMPLY WILL RESULT IN RE-STARTING THE INSTALLATION.

UTILITIES

THE FOLLOWING UTILITY COMPANIES HAVE FACILITIES WITHIN THE PROJECT LIMITS:

CITY OF ANN ARBOR
PUBLIC WORKS UNIT
THE W.R. WHEELER SERVICE CENTER
4251 STONE SCHOOL ROAD
ANN ARBOR, MI 48108
PH: 734-794-6350

PROJECT INQUIRIES:
ATTN: CHRIS ELENBAAS
PH: 734-794-6350

FOR WATER:
ATTN: DAN WOODEN
PH: 734-794-6350

FOR SANITARY AND STORM:
ATTN: PAT MAINO
PH: 734-794-6350

FOR FORESTRY:
ATTN: MATT WALDSMITH
PH: 734-794-6350

FOR SIGNS, SIGNALS, AND STREETLIGHTS:
ATTN: CHUCK FOJTICK
PH: 734-794-6361

FOR ELECTRIC:
DTE ENERGY
WESTERN WAYNE SERVICE CENTER
8001 HAGGERTY ROAD
BELLEVILLE, MI 48111
ATTN: CLAY COMBEE
PH: 734-397-4112

FOR GAS:
DTE ENERGY
3150 E. MICHIGAN AVE.
YPSILANTI, MI 48198
ATTN: ROBERT CZAPIEWSKI
PH: 734-544-7818

FOR TELEPHONE:
AT&T
550 S. MAPLE ROAD
ANN ARBOR, MI 48103
PH: 734-996-2135

FOR CABLE TELEVISION:
COMCAST
27800 FRANKLIN ROAD
SOUTHFIELD, MI 48034
ATTN: RON SUTHERLAND
PH: 313-999-8300

FOR FIBER OPTIC:
MCI
2800 N. GLENFILLE ROAD
RICHARDSON, TX 75082
ATTN: DEAN BOYERS
PH: 972-729-6016

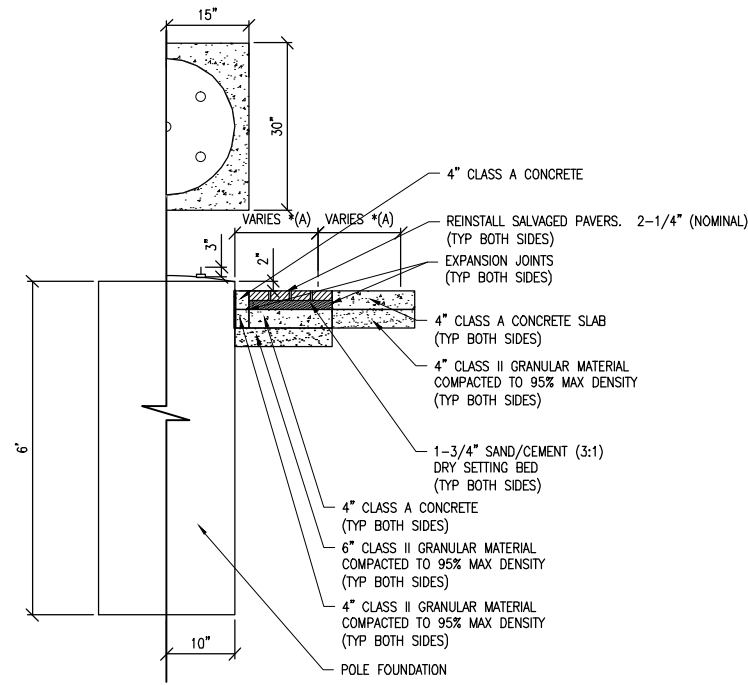


REVISIONS:
11-20-18 BD SET

DATE: 02-28-2019
PROJ NUMBER: 0028-18-000
ENG: KS
PROJ LEADER: JG
CITY: ANN ARBOR
COUNTY: WASHTENAW
CADD: CXP/REI
SCALE: 1"=40'
UTM: 18QUN
VERT DATUM: NAVD83
HORIZ DATUM: NAD83
SCALE: 1"=40'
VERT DATUM: NAVD83

CITY OF ANN ARBOR
ITB NO. 4557 2019 STREET LIGHT REPLACEMENT
NOTE SHEET

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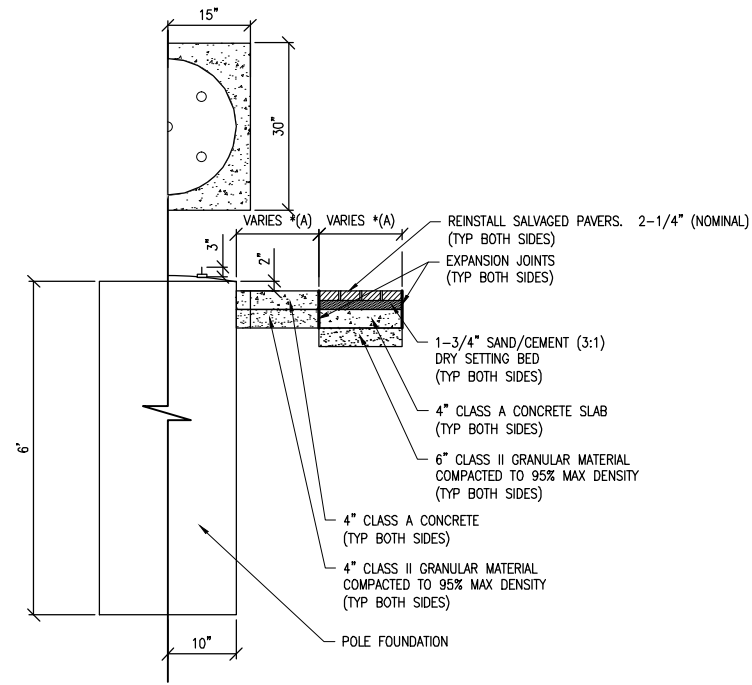


PROPOSED HALF DETAIL (DOWNTOWN)

NOT TO SCALE

*NOTES:

A. SEE PLAN SHEET

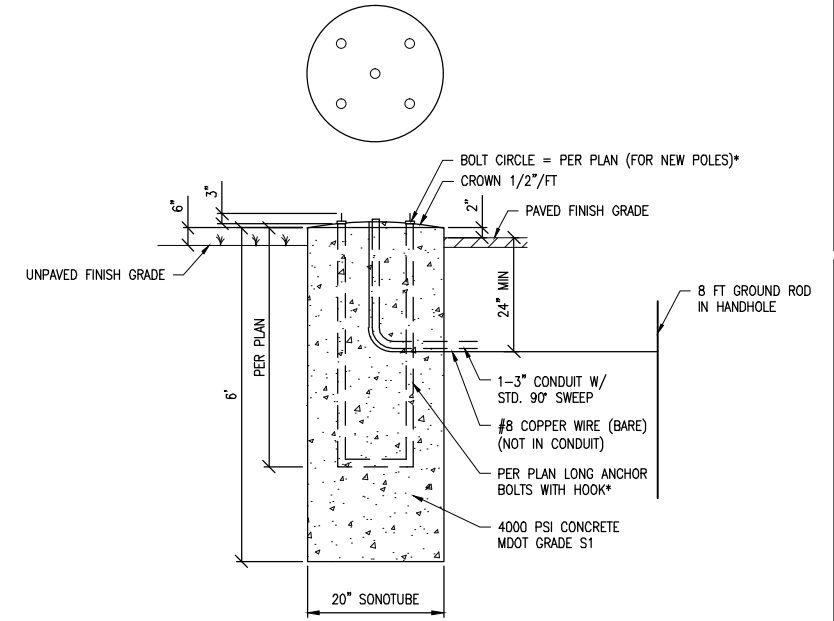


PROPOSED HALF DETAIL (DOWNTOWN)

NOT TO SCALE

*NOTES:

A. SEE PLAN SHEET

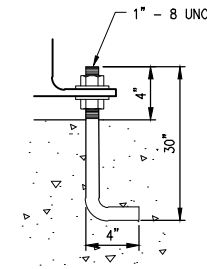


TYPICAL LIGHT POLE FOUNDATION DETAIL

NOT TO SCALE

NOTES:

- HOLE TO BE AUGERED. MINIMIZE DISTURBANCE OF IN-SITU SOILS DURING AUGERING.
- CONTRACTOR TO PROVIDE PREFABRICATED ANCHOR BOLT BUILD-UP.
- THE CITY WILL INSPECT THE AUGERED HOLE AND THE ANCHOR BOLT BUILD-UP AND PROVIDE WRITTEN APPROVAL PRIOR TO THE PLACEMENT OF CONCRETE.
- NO WATER IS TO BE IN HOLE AT THE TIME OF CONCRETE PLACEMENT.
- CONCRETE SHALL BE VIBRATED DURING PLACEMENT.
- CONTRACTOR WILL PROVIDE NECESSARY CONDUIT FOR ENTRY. PAID FOR AT THE CONTRACT UNIT PRICE FOR 2\"/>



ALSO PROVIDE SHAKESPEARE OPAB-2035 ANCHOR BOLT KIT FOR EACH LIGHT POLE. ANCHOR BOLTS TO BE HOT-DIPPED GALVANIZED, 30\"/>

ANCHOR BOLT PROJECTION DETAIL

NOT TO SCALE

REVISIONS:
11-26-18 BD SET

DATE: 11-26-18
PROJ NUMBER: 0028180403
ENG: KS
CITY/VILLAGE/TOWNSHIP: ANN ARBOR
COUNTY: WASHTENAW
SCALE: V: 1\"/>

CITY OF ANN ARBOR
ITB NO. 4557 2019 STREET LIGHT REPLACEMENT
MISCELLANEOUS DETAILS

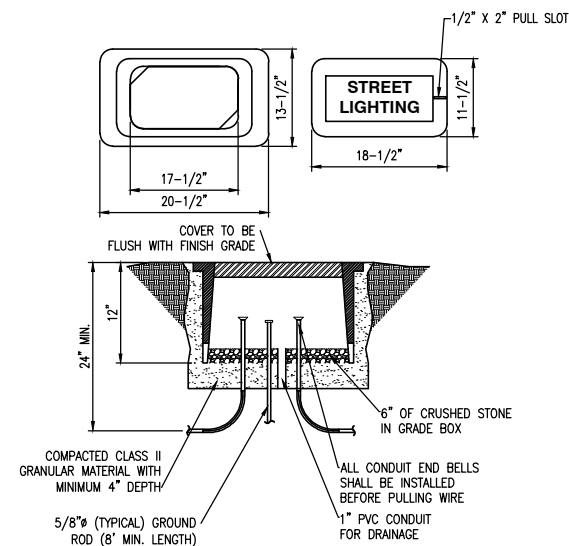
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LIGHT FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	CATALOG #	LAMPS	REMARKS
SL1	DECORATIVE GLOBE STREET LIGHT	LUMECON	L35W- -1-NW-B-D	LED	ORIENT BANNER ARMS AS DIRECTED BY ENGINEER. ORIENT RECEPTACLE AND POLE HANDHOLE AWAY FROM ROAD. LUMINARIES ARE FURNISHED AND INSTALLED BY CONTRACTOR. POLES WITH BANNER ARMS, POLE HANDHOLES AND RECEPTACLES ARE CONTRACTOR FURNISHED AND INSTALLED. FIXTURE TO BE MOUNTED ON POLE TYPE LP1.
SL2	DUAL FIXTURE DECORATIVE GLOBE STREET LIGHT	LUMECON	L35W- -1-NW-B-D	LED	
SL3	COBRA HEAD STREET LIGHT	LEOTEK	GCM2 40H MV NW 3R BK 850 FFA PCR7-CR	LED	ORIENT BANNER ARMS AS DIRECTED BY ENGINEER. ORIENT RECEPTACLE AND POLE HANDHOLE AWAY FROM ROAD. ORIENT LUMINAIRES PARALLEL TO THE ROAD. LUMINAIRES ARE FURNISHED AND INSTALLED BY CONTRACTOR. POLES WITH BANNER ARMS, POLE HANDHOLES AND RECEPTACLES ARE CONTRACTOR FURNISHED AND INSTALLED. FIXTURE TO BE MOUNTED ON POLE TYPE LP2.
					FIXTURE TO BE MOUNTED ON POLE TYPE LP3.

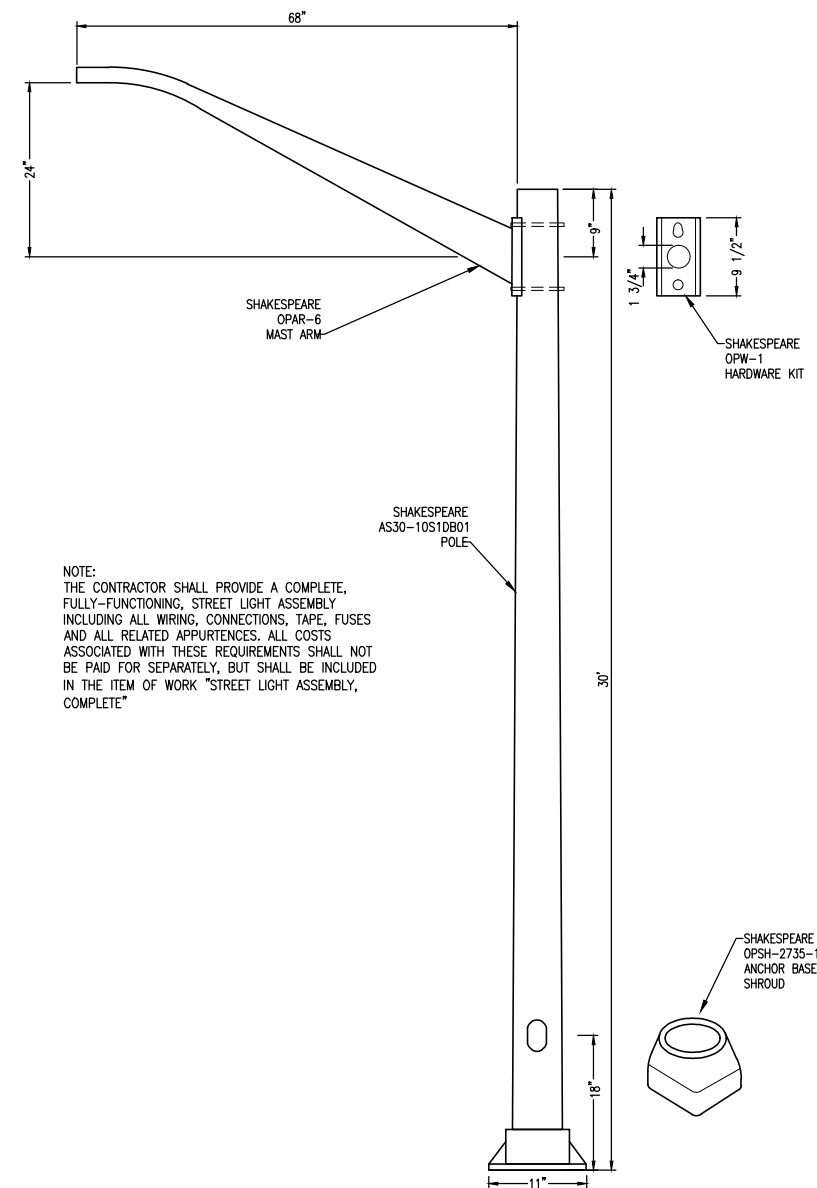
GENERAL NOTES

- PROVIDE QUAZITE MODEL PC1118BA12 WITH COVER PC1118HA00 OR APPROVED EQUIVALENT.
- BOX AND COVER SHALL BE POLYMER CONCRETE.
- COVERS SHALL BE SECURED WITH 3/8" BOLTS, NUTS, AND WASHERS, WHICH SHALL BE BRASS, STAINLESS STEEL OR OTHER CORROSION RESISTANT MATERIAL. STAINLESS STEEL SHALL HAVE A CHROMIUM CONTENT OF NOT LESS THAN 18% AND A NICKEL CONTENT OF NOT LESS THAN 8%, NUTS SHALL BE RECESSED BELOW TOP SURFACE OF COVER.
- COVER LETTERING SHALL BE 1/2" MINIMUM LETTERS CAST IN STANDARD MARKINGS: (STREET LIGHTING).
- CONDUIT ENTERING THE BOX SHALL HAVE 90° LONG RADIUS BEND (INSIDE THE BOX). THE CONDUITS OPENING, INSIDE THE BOX, SHALL BE AT LEAST 4" BELOW THE LID, OPENING SHALL HAVE SMOOTH EDGE. IF THE CONDUIT IS P.V.C. A SLIP COUPLING MUST BE USED. IF THE CONDUIT IS RIGID PIPE, A PROTECTIVE BUSHING SHALL BE USED.
- CONDUCTORS SHALL HAVE A MINIMUM OF 24" SLACK FROM CONDUIT BELL END.
- BACKFILL WITH EXCAVATED MATERIAL AND THOROUGHLY COMPACT.
- WHERE HANDHOLES ARE INSTALLED IN CONCRETE AREAS, 1/2" PREMOLDED EXPANSION JOINT SHALL BE INSTALLED AROUND THE BOX.
- BOXES IN NON-VEHICLE TRAFFIC AREAS TO BE TIER 8 AND IN VEHICLE TRAFFIC AREAS TO BE TIER 22 UNLESS OTHERWISE NOTED.



HANDHOLE DETAIL

NOT TO SCALE



POLE TYPE LP3 DETAIL

NOT TO SCALE

NOTE:
THE CONTRACTOR SHALL PROVIDE A COMPLETE, FULLY-FUNCTIONING, STREET LIGHT ASSEMBLY INCLUDING ALL WIRING, CONNECTIONS, TAPE, FUSES AND ALL RELATED APPURTENANCES. ALL COSTS ASSOCIATED WITH THESE REQUIREMENTS SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE ITEM OF WORK "STREET LIGHT ASSEMBLY, COMPLETE"

REVISIONS:
11-28-18 BID SET
12-14-18 ADDENDUM No. 1 REVISIONS

CITY OF ANN ARBOR
ITB NO. 4557 2019 STREET LIGHT REPLACEMENT
ELECTRICAL DETAILS, LIGHT FIXTURE SCHEDULE

DRAWING PATH: P:\0000_01000028180406_A3_Sheet_L1_Renke_FY19_CFDrawing\Civil\Details\80240DET_ELEC.dwg Nov 27, 2018 8:59am

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SECTION A-A
3 1/2" SCH. 40 STEEL PIPE (0.237" WALL)
N.T.S.

SECTION B-B
8" SCH. 40 STEEL PIPE (0.322" WALL)
N.T.S.

LOGO DETAIL
N.T.S.

LAMP POST SPECIFICATIONS

STYLE: CENTER CITY WITH STEEL SHAFT ASSEMBLY
 HEIGHT: 11'-2"
 BASE: 18" DIAMETER
 MATERIAL: 8" SCH. 40 STEEL PIPE PEDESTAL (8 5/8" O.D.)
 4" SCH. 40 STEEL PIPE SHAFT (4" O.D.)
 (2) TWO PIECE WRAP AROUND CASTINGS, CAST DUCTILE IRON PER A.S.T.M. A536-84, GRADE 65-45-12
 FINISH: POWDER COATED - GLOSS BLACK
 ACCESS DOOR: SECURED WITH 1/4"-20 HEX HEAD BOLT (18-8)
 GROUND PROVISIONS: INSIDE WALL, OPPOSITE ACCESS DOOR, TO BE DRILLED AND TAPPED FOR 1/4"-20 GROUND PROVISION (GROUND LUG SUPPLIED BY SPRING CITY)
 ANCHOR BOLTS: (4) 1" DIA. X 30" + 4" HOOK (FULLY GALVANIZED WITH 2 GALVANIZED NUTS AND 2 GALVANIZED WASHERS PER BOLT)
 BOLT PROJECTION: 3" REQUIRED
 TENON: 2 7/8" DIA. X 3" HIGH (TO ACCEPT LUMINAIRE)
 COATING: FABRICATED STEEL STRUCTURE (AFTER ASSEMBLY), DUCTILE IRON AND ALUMINUM CASTINGS TO BE GALVANIZED
 CATALOG NO.: SPS000-SC4-18-11.20-TN2.88/3.00-(4)BP-PP-GFW-CU

WARRANTY INFORMATION

TWO PIECE CAST DUCTILE IRON CASTINGS PROTECTED BY SPRING CITY'S 25 YEAR WARRANTY.

SPRING CITY WARRANTS ITS DUCTILE IRON BASES TO BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP UNDER NORMAL USE AND OPERATION FOR 25 YEARS. NORMAL USE INCLUDES DAMAGE RESULTING FROM MOTOR VEHICLE COLLISIONS.

DETAIL A
STEEL ASSEMBLY DETAIL
N.T.S.

DETAIL B
STEEL ASSEMBLY DETAIL
N.T.S.

SECTION C-C
N.T.S.

Spring City Electrical Mfg. Co.
 HALL AND MAIN STREETS - P.O. BOX 19 - SPRING CITY, PA. 19475
 PHONE (610) 948-4000 - FAX (610) 948-5577 - WWW.SPRINGCITY.COM

DESCRIPTION	THE 11'-2" CENTER CITY STYLE LAMP POST WITH WELDED STEEL ASSEMBLY AND CAST DUCTILE IRON ORNAMENTATION		
CUSTOMER	LIBERTY (ANN ARBOR, MI)		
SCALE	DRAWN BY:	DATE	DRAWING NO.
N.T.S.	D.A.K.	03-31-2017	S103376

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SECTION A-A
3 1/2" SCH. 40 STEEL PIPE (0.237" WALL)
N.T.S.

SECTION B-B
8" SCH. 40 STEEL PIPE (0.322" WALL)
N.T.S.

LOGO DETAIL
N.T.S.

LAMP POST SPECIFICATIONS

STYLE: CENTER CITY WITH STEEL SHAFT ASSEMBLY
 HEIGHT: 13'-0"
 BASE: 18" DIAMETER
 MATERIAL: 8" SCH. 40 STEEL PIPE PEDESTAL (8 5/8" O.D.)
 4" SCH. 40 STEEL PIPE SHAFT (4" O.D.)
 (2) TWO PIECE WRAP AROUND CASTINGS, CAST DUCTILE IRON PER A.S.T.M. A536-84, GRADE 65-45-12
 FINISH: POWDER COATED - GLOSS BLACK
 ACCESS DOOR: SECURED WITH 1/4"-20 HEX HEAD BOLT (18-8)
 GROUND PROVISIONS: INSIDE WALL, OPPOSITE ACCESS DOOR, TO BE DRILLED AND TAPPED FOR 1/4"-20 GROUND PROVISION (GROUND LUG SUPPLIED BY SPRING CITY)
 ANCHOR BOLTS: (4) 1" DIA. X 30" + 4" HOOK (FULLY GALVANIZED WITH 2 GALVANIZED NUTS AND 2 GALVANIZED WASHERS PER BOLT)
 BOLT PROJECTION: 3" REQUIRED
 TENON: 3 1/2" DIA. X 6" HIGH (TO ACCEPT CROSS ARM)
 COATING: FABRICATED STEEL STRUCTURE (AFTER ASSEMBLY), DUCTILE IRON AND ALUMINUM CASTINGS TO BE GALVANIZED
 CATALOG NO.: SPS000-SC4-18-13.00-TN3.50/6.00-PP-GFW-CU

CROSS ARM SPECIFICATIONS

STYLE: ANN ARBOR TWIN
 HEIGHT: 10"
 WIDTH: 22" FROM ϵ TO ϵ
 MATERIAL: FABRICATED ALUMINUM
 FINISH: POWDER COAT - GLOSS BLACK
 TENON: 2 7/8" DIA. X 3" HIGH (TO ACCEPT LUMINAIRE)
 CATALOG NO.: AARANN-25-22-TN2.88/3.00-CU

WARRANTY INFORMATION

TWO PIECE CAST DUCTILE IRON CASTINGS PROTECTED BY SPRING CITY'S 25 YEAR WARRANTY.

SPRING CITY WARRANTS ITS DUCTILE IRON BASES TO BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP UNDER NORMAL USE AND OPERATION FOR 25 YEARS. NORMAL USE INCLUDES DAMAGE RESULTING FROM MOTOR VEHICLE COLLISIONS.

DETAIL A
STEEL ASSEMBLY DETAIL
N.T.S.

DETAIL B
STEEL ASSEMBLY DETAIL
N.T.S.

SECTION C-C
N.T.S.

Spring City Electrical Mfg. Co.
 HALL AND MAIN STREETS - P.O. BOX 19 - SPRING CITY, PA. 19475
 PHONE (610) 948-4000 - FAX (610) 948-5577 - WWW.SPRINGCITY.COM

DESCRIPTION	THE 13'-0" CENTER CITY STYLE LAMP POST WITH WELDED STEEL ASSEMBLY AND CAST DUCTILE IRON ORNAMENTATION AND A TWIN ANN ARBOR CROSS ARM		
CUSTOMER	LIBERTY (ANN ARBOR, MI)		
SCALE	DRAWN BY:	DATE	DRAWING NO.
N.T.S.	D.A.K.	03-31-2017	S103375

POLE TYPE LP1 DETAIL
NOT TO SCALE

POLE TYPE LP2 DETAIL
NOT TO SCALE

REVISIONS:
 11-20-18 BD SET

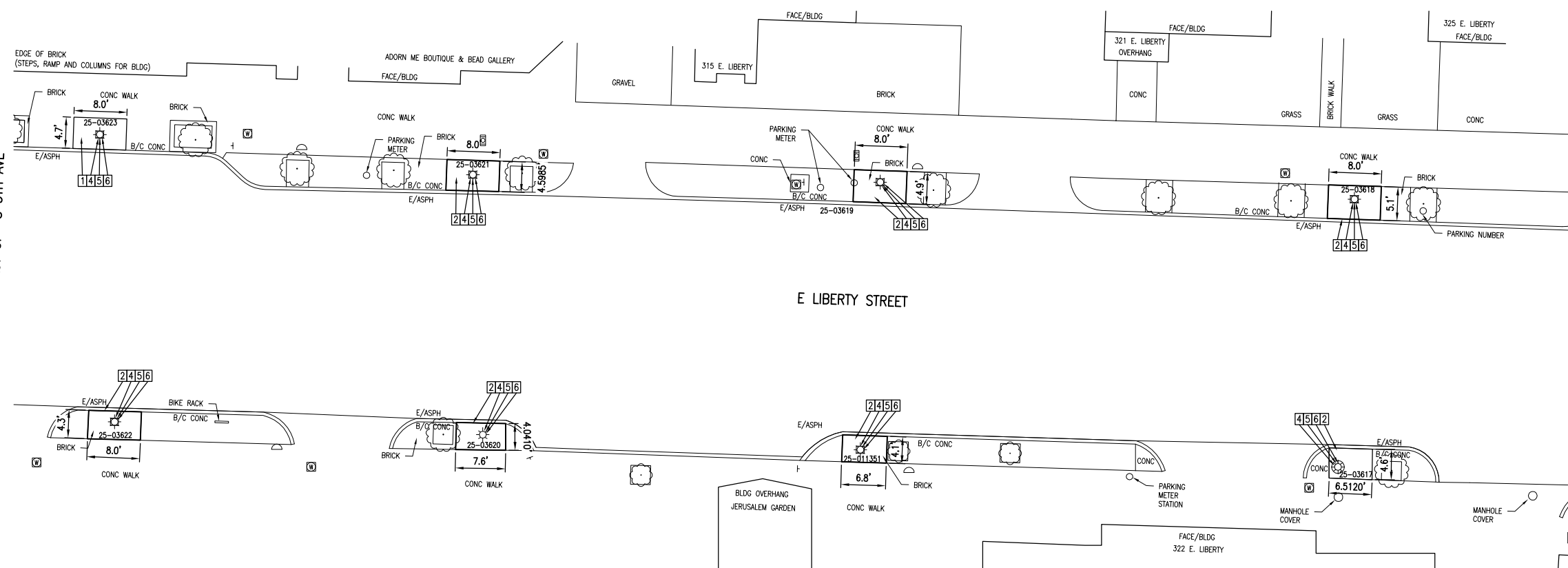
CITY OF ANN ARBOR
 ITB NO. 4557 2019 STREET LIGHT REPLACEMENT
 ELECTRICAL DETAILS

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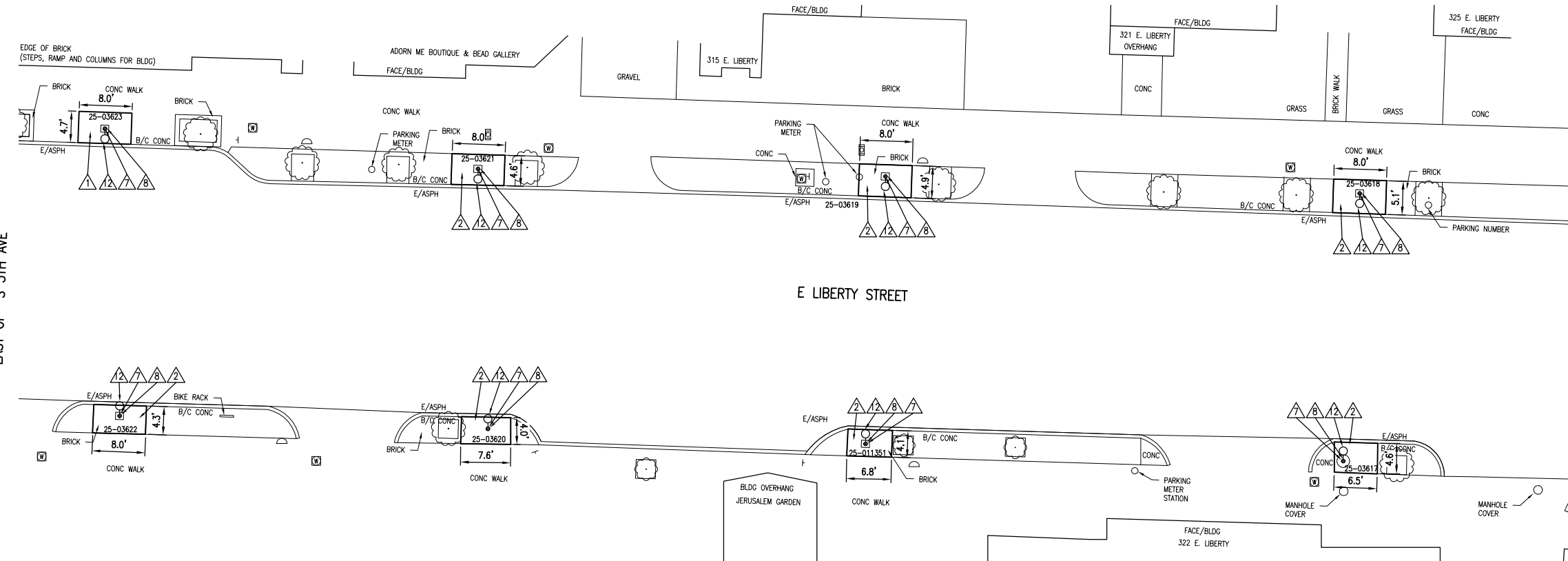
EAST OF S 5TH AVE

EAST OF S 5TH AVE



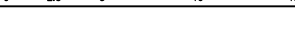
REMOVAL PLAN

GRAPHIC SCALE: 1 inch = 10 feet (11x17 SHEET)



CONSTRUCTION PLAN

GRAPHIC SCALE: 1 inch = 10 feet (11x17 SHEET)

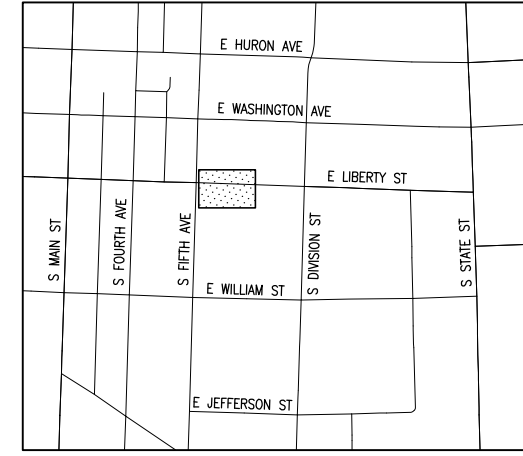


QUANTITIES THIS SHEET

TOTAL	UNIT	DESCRIPTION
5	Syd	Sidewalk, Rem
283	Sft	Brick Pavers, Rem, Sort and Salvage
8	Ea	Foundation, Rem
8	Ea	Light Pole, Rem
8	Ea	Foundation, Light Pole
8	Ea	Light Pole, LP1
8	Ea	Fixture, SL1
320	Sft	Sidewalk, Conc, 4 inch
283	Sft	Brick, Install Salvaged Brick



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KEY PLAN
NOT TO SCALE

REMOVAL KEY

- 1 CONCRETE WALK, REMOVE
- 2 BRICK PAVER WALK, REMOVE & SALVAGE
- 3 PAVEMENT, REMOVE
- 4 LIGHT POLE, REMOVE
- 5 FOUNDATION, REMOVE
- 6 FIXTURE, REMOVE
- 7 FIXTURE, REMOVE & SALVAGE
- 8 FOUNDATION, PROTECT
- 9 HANDHOLE, REMOVE
- 10 LIGHT POLE, REMOVE & SALVAGE
- 11 LIGHT POLE, PROTECT

CONSTRUCTION KEY

- 1 CONCRETE WALK
- 2 BRICK PAVER WALK, REINSTALL
- 3 ADA RAMP
- 4 CONCRETE PAVEMENT
- 5 HMA PAVEMENT
- 6 TOPSOIL, SEED & MULCH
- 7 POLE FOUNDATION
- 8 LIGHT POLE, LP1
- 9 LIGHT POLE, LP2
- 10 LIGHT POLE, LP3
- 11 FIXTURE, REINSTALL
- 12 FIXTURE, SL1
- 13 FIXTURE, SL2
- 14 FIXTURE, SL3
- 15 HANDHOLE
- 16 LIGHT POLE, REINSTALL



Know what's below.
Call before you dig.

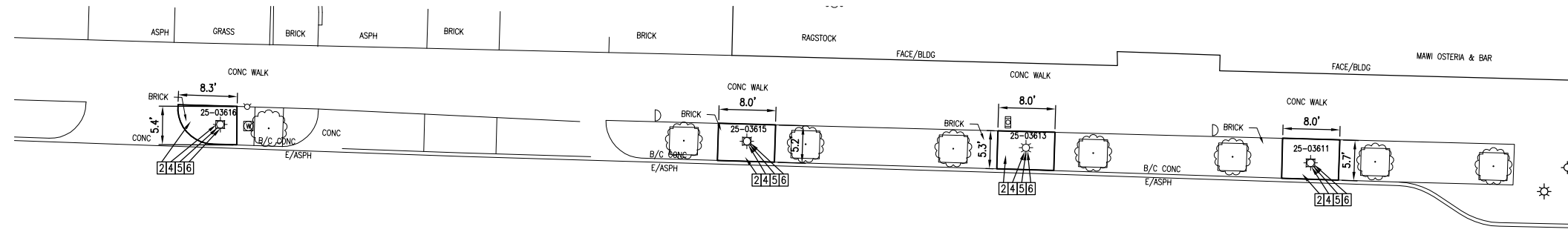
REVISIONS:
11-28-18 BID SET

DATE	PROJ NUMBER	ENG	PROJ MGR	CADD	COUNTY	CITY/VILAGE/TOWNSHIP	SCALE	H: AS NOTED	V: N/A	HORIZ DATUM	VERT DATUM
	0028-18-040	NS	GT	C/K/REH	WASHINGTON	ANN ARBOR				NAVD83	NAVD83

CITY OF ANN ARBOR
ITB NO. 4557 2019 STREET LIGHT REPLACEMENT
REMOVAL & CONSTRUCTION PLAN

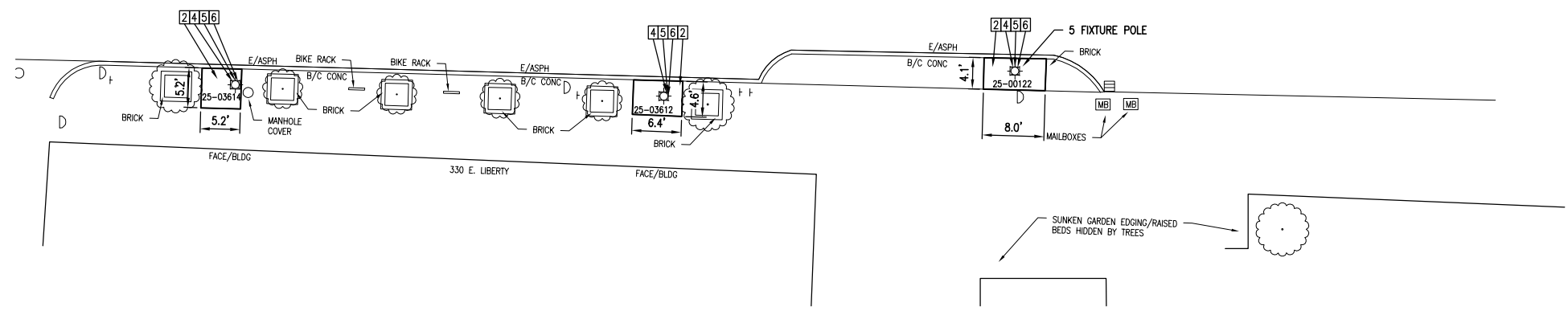
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DRAWING PATH: P:\0000_01000028180040_AA_Street_LL\Repos_EY_19_CIP\Drawings\CHMPlans_Consult\80040CON_02.dwg Nov 27, 2018 - 7:18pm



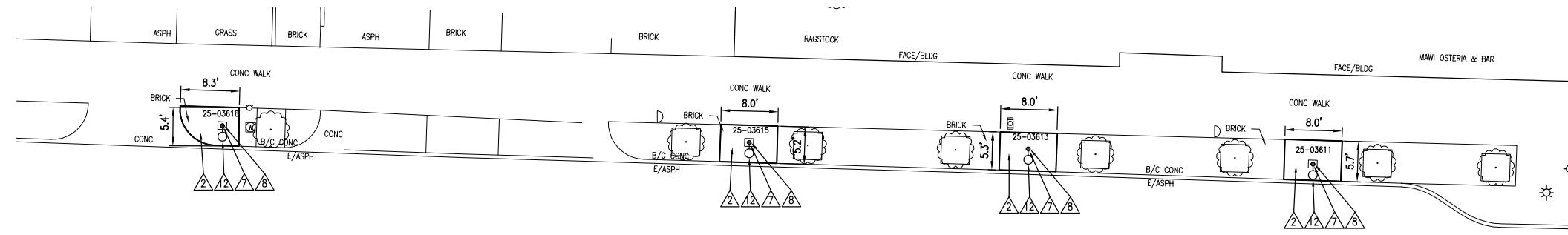
E LIBERTY STREET

S DIVISION ST



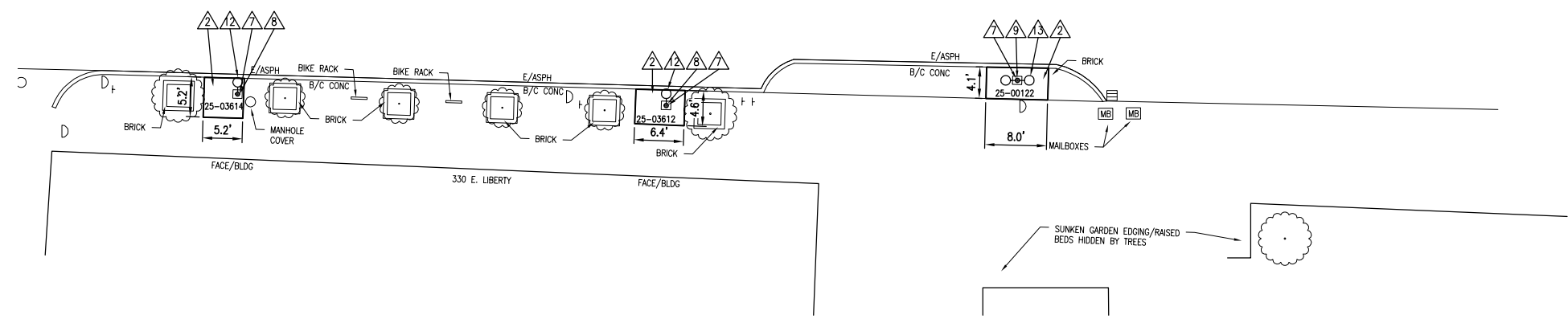
REMOVAL PLAN

GRAPHIC SCALE: 1 inch = 10 feet (11x17 SHEET)



E LIBERTY STREET

S DIVISION ST



CONSTRUCTION PLAN

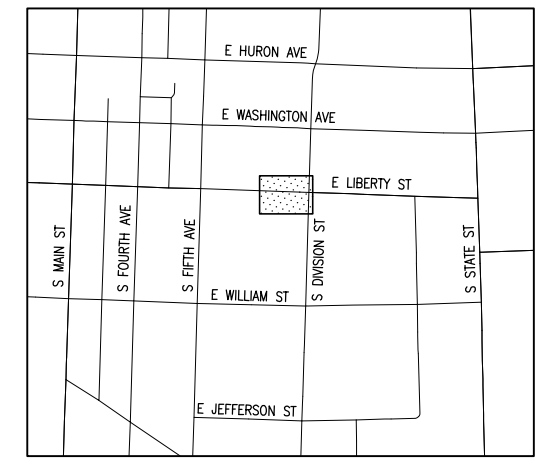
GRAPHIC SCALE: 1 inch = 10 feet (11x17 SHEET)

QUANTITIES THIS SHEET

TOTAL	UNIT	DESCRIPTION
300	SR	Brick Pavers, Rem, Sort and Salvage
7	Ea	Foundation, Rem
7	Ea	Light Pole, Rem
7	Ea	Foundation, Light Pole
6	Ea	Light Pole, LP1
1	Ea	Light Pole, LP2
6	Ea	Fixture, SL1
1	Ea	Fixture, SL2
300	SR	Sidewalk, Conc, 4 inch
300	SR	Brick, Install Salvaged Brick



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KEY PLAN
NOT TO SCALE

REMOVAL KEY

- 1 CONCRETE WALK, REMOVE
- 2 BRICK PAVER WALK, REMOVE & SALVAGE
- 3 PAVEMENT, REMOVE
- 4 LIGHT POLE, REMOVE
- 5 FOUNDATION, REMOVE
- 6 FIXTURE, REMOVE
- 7 FIXTURE, REMOVE & SALVAGE
- 8 FOUNDATION, PROTECT
- 9 HANDHOLE, REMOVE
- 10 LIGHT POLE, REMOVE & SALVAGE
- 11 LIGHT POLE, PROTECT

CONSTRUCTION KEY

- 1 CONCRETE WALK
- 2 BRICK PAVER WALK, REINSTALL
- 3 ADA RAMP
- 4 CONCRETE PAVEMENT
- 5 HMA PAVEMENT
- 6 TOPSOIL, SEED & MULCH
- 7 POLE FOUNDATION
- 8 LIGHT POLE, LP1
- 9 LIGHT POLE, LP2
- 10 LIGHT POLE, LP3
- 11 FIXTURE, REINSTALL
- 12 FIXTURE, SL1
- 13 FIXTURE, SL2
- 14 FIXTURE, SL3
- 15 HANDHOLE
- 16 LIGHT POLE, REINSTALL



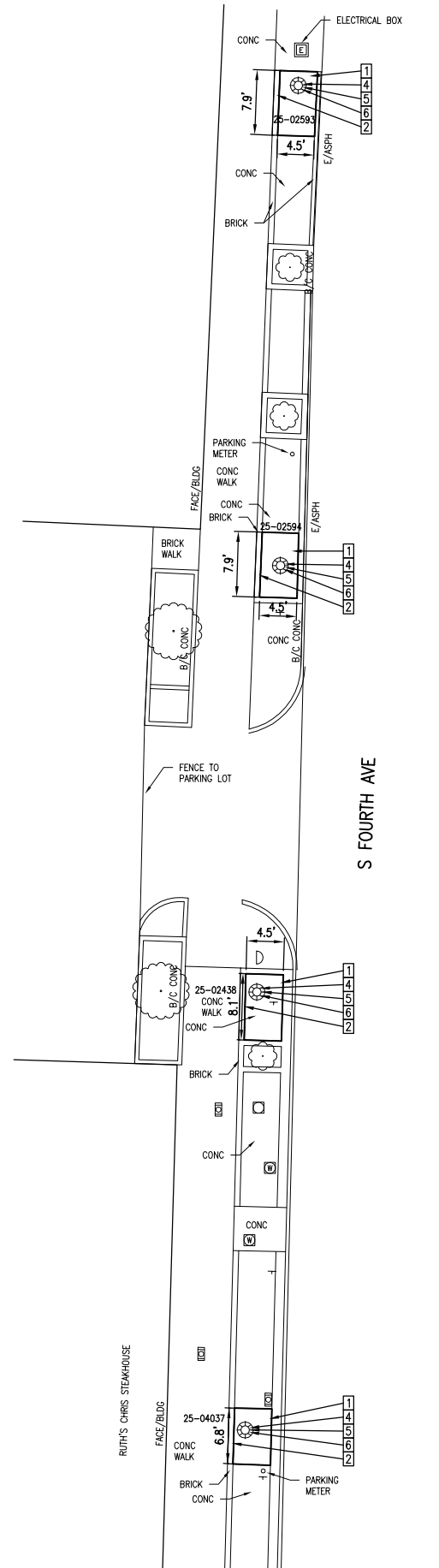
REVISIONS:
11-28-18 BID SET

DATE: 02/28/2019
PROJ NUMBER: 0028-18-040
ENG: NS
CITY/VILLAGETOWNSHIP: ANN ARBOR
COUNTY: WASHTENAW
SCALE: H: 1"=40'
VERT DATUM: NAVD83
HORIZ DATUM: NAD83

CITY OF ANN ARBOR
ITB NO. 4557 2019 STREET LIGHT REPLACEMENT
REMOVAL & CONSTRUCTION PLAN

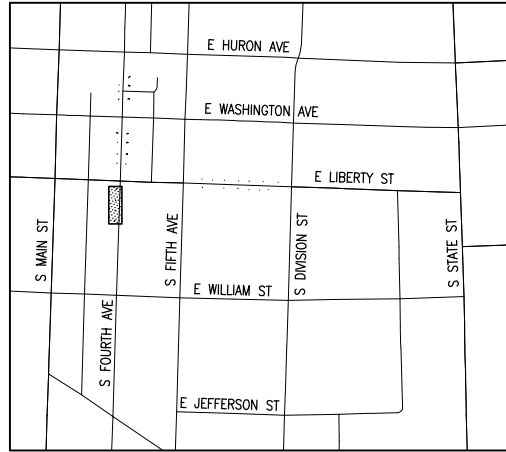
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DRAWING PATH: P:\0000_01\000028180040_AA_Street_LL\Replac_FY_19_CIP\Drawings\CHM\Plans_Corsetti\80040CON_02.dwg Nov 27, 2018 - 7:18pm



REMOVAL PLAN

GRAPHIC SCALE: 1 inch = 10 feet (11x17 SHEET)



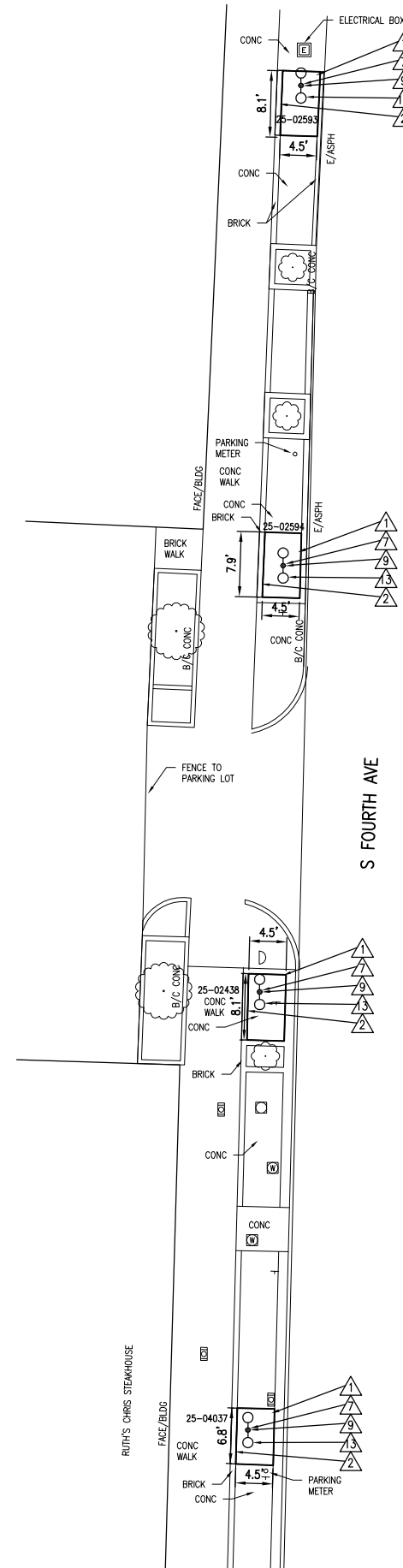
KEY PLAN
NOT TO SCALE

REMOVAL KEY

- 1 CONCRETE WALK, REMOVE
- 2 BRICK PAVER WALK, REMOVE & SALVAGE
- 3 PAVEMENT, REMOVE
- 4 LIGHT POLE, REMOVE
- 5 FOUNDATION, REMOVE
- 6 FIXTURE, REMOVE
- 7 FIXTURE, REMOVE & SALVAGE
- 8 FOUNDATION, PROTECT
- 9 HANDHOLE, REMOVE
- 10 LIGHT POLE, REMOVE & SALVAGE
- 11 LIGHT POLE, PROTECT

CONSTRUCTION KEY

- 1 CONCRETE WALK
- 2 BRICK PAVER WALK, REINSTALL
- 3 ADA RAMP
- 4 CONCRETE PAVEMENT
- 5 HMA PAVEMENT
- 6 TOPSOIL, SEED & MULCH
- 7 POLE FOUNDATION
- 8 LIGHT POLE, LP1
- 9 LIGHT POLE, LP2
- 10 LIGHT POLE, LP3
- 11 FIXTURE, REINSTALL
- 12 FIXTURE, SL1
- 13 FIXTURE, SL2
- 14 FIXTURE, SL3
- 15 HANDHOLE
- 16 LIGHT POLE, REINSTALL



CONSTRUCTION PLAN

GRAPHIC SCALE: 1 inch = 10 feet (11x17 SHEET)

QUANTITIES THIS SHEET

TOTAL	UNIT	DESCRIPTION
20	Syd	Sidewalk, Rem
24	Sft	Brick Pavers, Rem, Sort and Salvage
4	Ea	Foundation, Rem
4	Ea	Light Pole, Rem
4	Ea	Foundation, Light Pole
4	Ea	Light Pole, LP2
4	Ea	Fixture, SL2
203	Sft	Sidewalk, Conc, 4 inch
24	Sft	Brick, Install Salvaged Brick



Know what's below.
Call before you dig.

ARCHITECTS ENGINEERS PLANNERS

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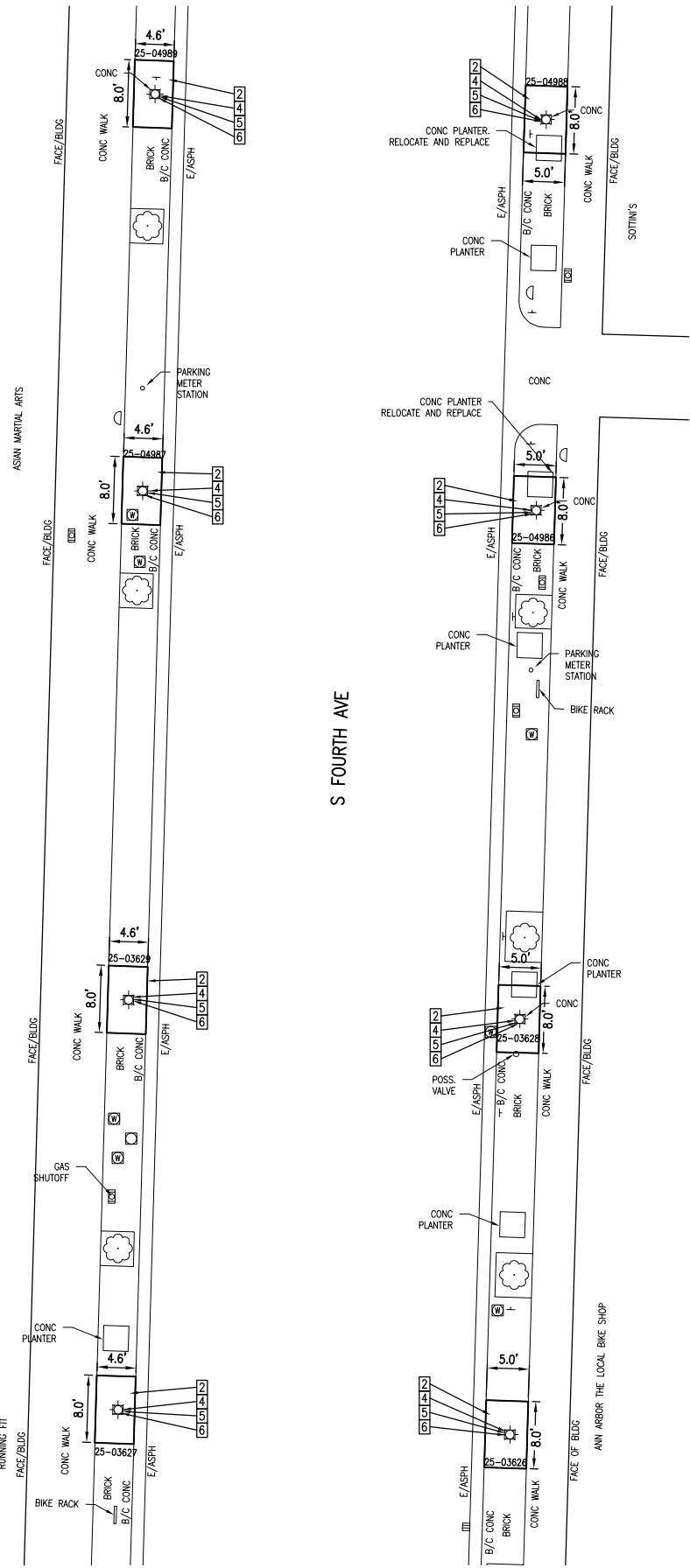
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REVISIONS:

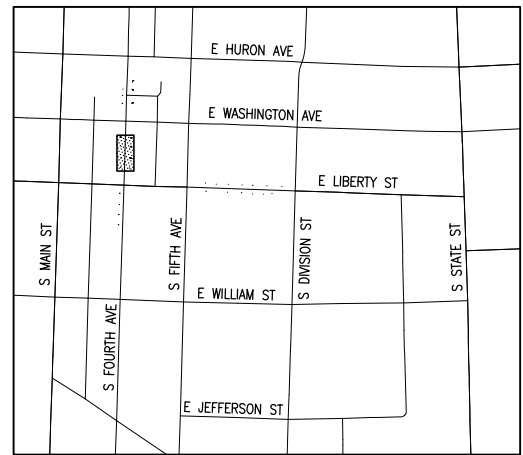
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CITY OF ANN ARBOR
ITB NO. 4557 2019 STREET LIGHT REPLACEMENT
REMOVAL & CONSTRUCTION PLAN

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REMOVAL PLAN
 GRAPHIC SCALE: 1 inch = 10 feet (11x17 SHEET)



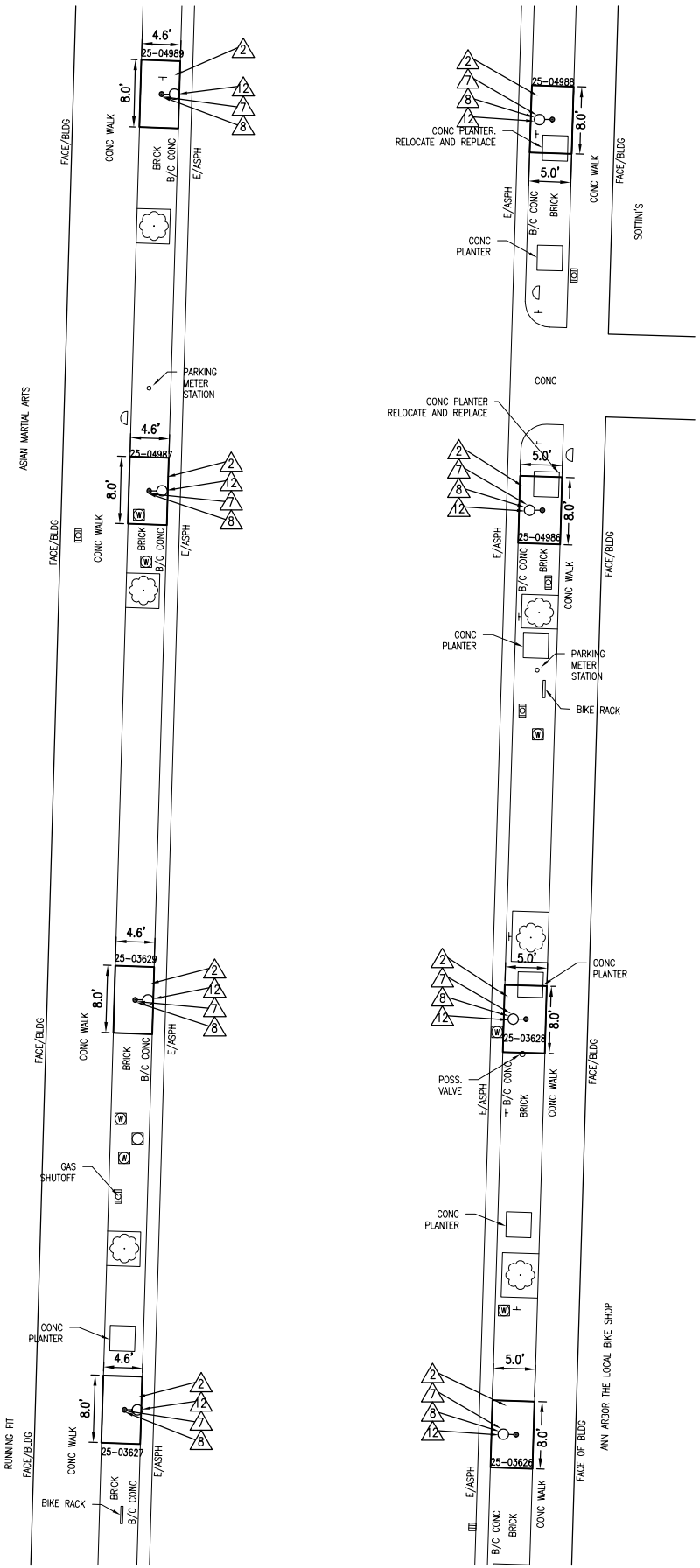
KEY PLAN
 NOT TO SCALE

REMOVAL KEY

- 1 CONCRETE WALK, REMOVE
- 2 BRICK PAVER WALK, REMOVE & SALVAGE
- 3 PAVEMENT, REMOVE
- 4 LIGHT POLE, REMOVE
- 5 FOUNDATION, REMOVE
- 6 FIXTURE, REMOVE
- 7 FIXTURE, REMOVE & SALVAGE
- 8 FOUNDATION, PROTECT
- 9 HANDHOLE, REMOVE
- 10 LIGHT POLE, REMOVE & SALVAGE
- 11 LIGHT POLE, PROTECT

CONSTRUCTION KEY

- ▲ CONCRETE WALK
- ▲ BRICK PAVER WALK, REINSTALL
- ▲ ADA RAMP
- ▲ CONCRETE PAVEMENT
- ▲ HMA PAVEMENT
- ▲ TOPSOIL, SEED & MULCH
- ▲ POLE FOUNDATION
- ▲ LIGHT POLE, LP1
- ▲ LIGHT POLE, LP2
- ▲ LIGHT POLE, LP3
- ▲ FIXTURE, REINSTALL
- ▲ FIXTURE, SL1
- ▲ FIXTURE, SL2
- ▲ FIXTURE, SL3
- ▲ HANDHOLE
- ▲ LIGHT POLE, REINSTALL



CONSTRUCTION PLAN
 GRAPHIC SCALE: 1 inch = 10 feet (11x17 SHEET)

QUANTITIES THIS SHEET

TOTAL	UNIT	DESCRIPTION
350	St	Brick Pavers, Rem, Sort and Salvage
8	Ea	Foundation, Rem
8	Ea	Light Pole, Rem
8	Ea	Foundation, Light Pole
8	Ea	Light Pole, LP1
8	Ea	Fixture, SL1
350	St	Sidewalk, Conc, 4 inch
350	St	Brick, Install Salvaged Brick



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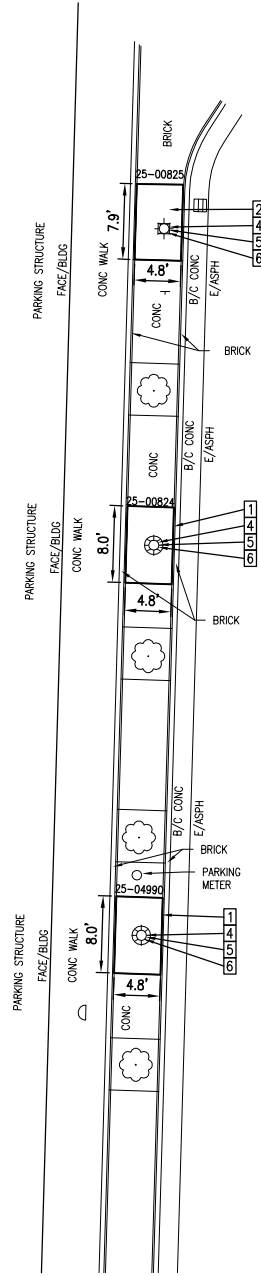
OHM
 ARCHITECTS ENGINEERS PLANNERS
 34000 Plymouth Road
 Livonia, MI 48150
 P (734) 522-6711 | F (734) 522-6427
 OHM-ADVISORS.COM

REVISIONS:

NO.	DATE	DESCRIPTION
1	11-28-18	BID SET

CITY OF ANN ARBOR
 ITB NO. 4557 2019 STREET LIGHT REPLACEMENT
 REMOVAL & CONSTRUCTION PLAN

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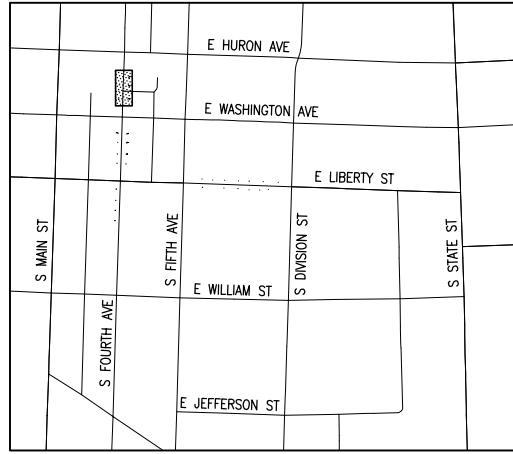
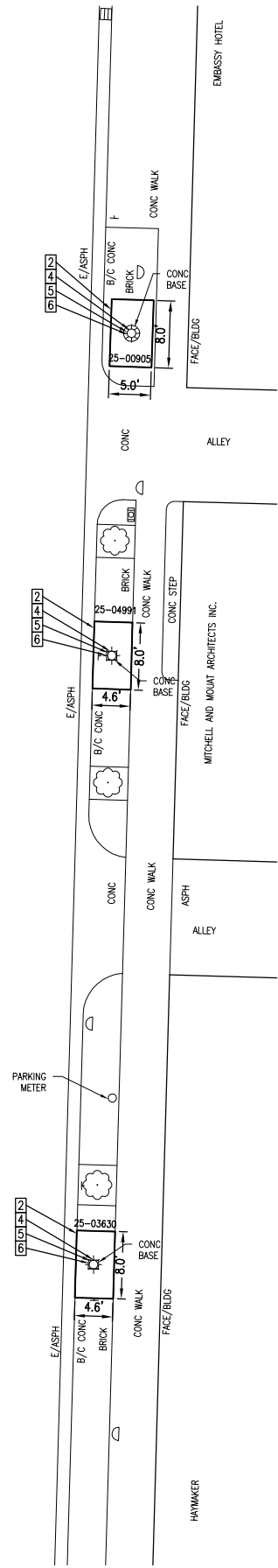


REMOVAL PLAN

GRAPHIC SCALE: 1 inch = 10 feet (11x17 SHEET)



S FOURTH AVE



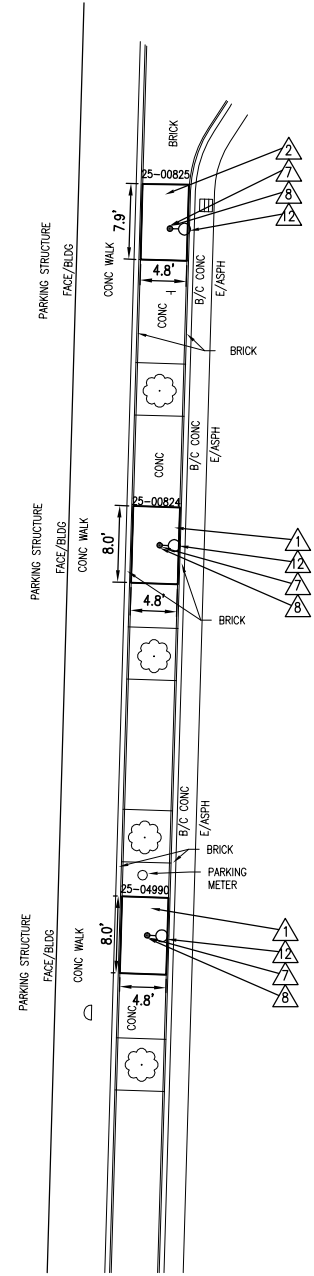
KEY PLAN
NOT TO SCALE

REMOVAL KEY

- 1 CONCRETE WALK, REMOVE
- 2 BRICK PAVER WALK, REMOVE & SALVAGE
- 3 PAVEMENT, REMOVE
- 4 LIGHT POLE, REMOVE
- 5 FOUNDATION, REMOVE
- 6 FIXTURE, REMOVE
- 7 FIXTURE, REMOVE & SALVAGE
- 8 FOUNDATION, PROTECT
- 9 HANDHOLE, REMOVE
- 10 LIGHT POLE, REMOVE & SALVAGE
- 11 LIGHT POLE, PROTECT

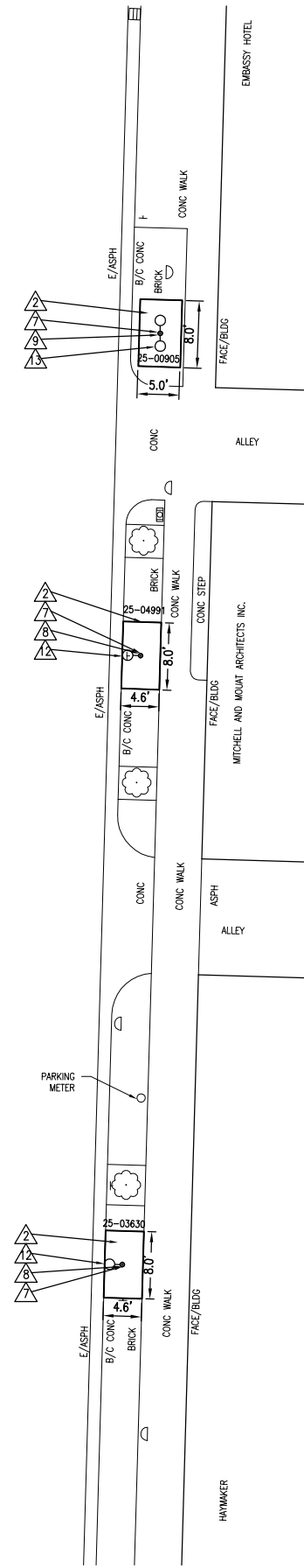
CONSTRUCTION KEY

- 1 CONCRETE WALK
- 2 BRICK PAVER WALK, REINSTALL
- 3 ADA RAMP
- 4 CONCRETE PAVEMENT
- 5 HMA PAVEMENT
- 6 TOPSOIL, SEED & MULCH
- 7 POLE FOUNDATION
- 8 LIGHT POLE, LP1
- 9 LIGHT POLE, LP2
- 10 LIGHT POLE, LP3
- 11 FIXTURE, REINSTALL
- 12 FIXTURE, SL1
- 13 FIXTURE, SL2
- 14 FIXTURE, SL3
- 15 HANDHOLE
- 16 LIGHT POLE, REINSTALL



CONSTRUCTION PLAN

GRAPHIC SCALE: 1 inch = 10 feet (11x17 SHEET)



QUANTITIES THIS SHEET

TOTAL	UNIT	DESCRIPTION
10	Syd	Sidewalk, Rem
170	Sft	Brick Pavers, Rem, Sort and Salvage
6	Ea	Foundation, Rem
6	Ea	Light Pole, Rem
6	Ea	Foundation, Light Pole
5	Ea	Light Pole, LP1
1	Ea	Light Pole, LP2
5	Ea	Fixture, SL1
1	Ea	Fixture, SL2
260	Sft	Sidewalk, Conc, 4 inch
170	Sft	Brick, Install Salvaged Brick



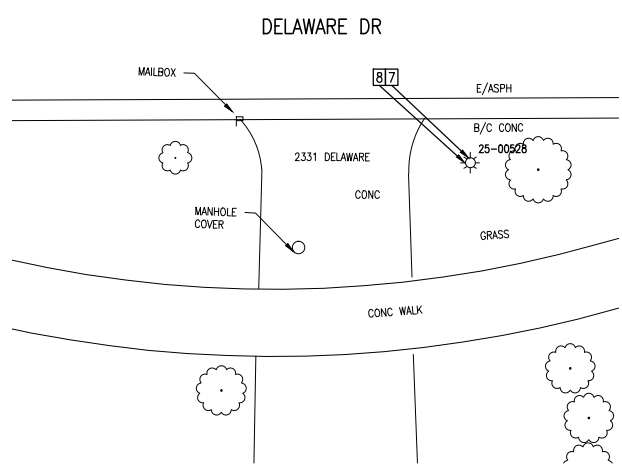
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Call before you dig.

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OHM-ADVISORS.COM

REVISIONS:
11-28-18 BID SET

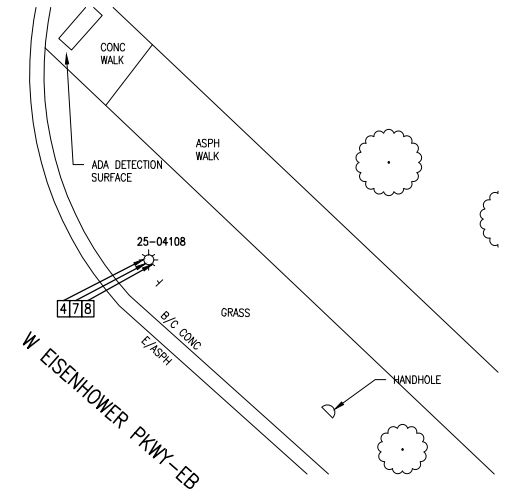
CITY OF ANN ARBOR
ITB NO. 4557 2019 STREET LIGHT REPLACEMENT
REMOVAL & CONSTRUCTION PLAN

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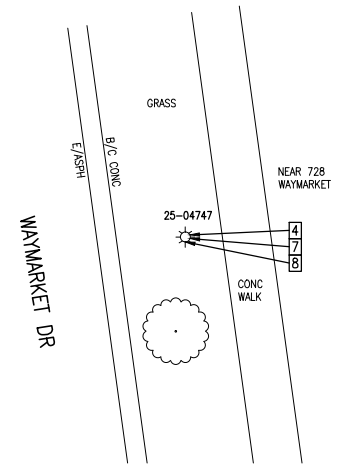


#1 - 2331 DELAWARE DR
 EAST OF TILSBY CT

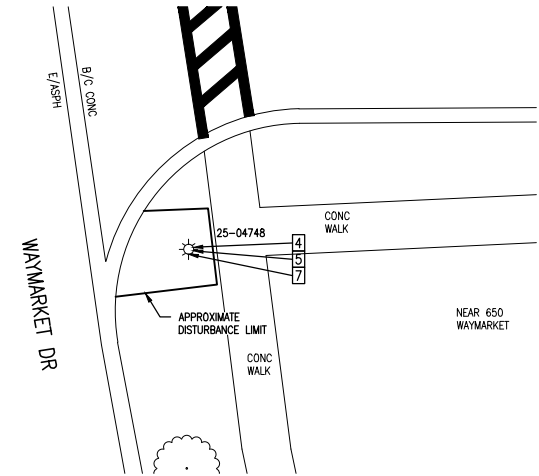
NOTE: POLE LOCATION 25-00528 HAS
 LOOSE WIRING. TO BE ADDRESSED
 DURING CONSTRUCTION



#2 - W EISENHOWER PKWY-EB
 AT CRANBROOK VILLAGE ENTRANCE



#3 - WAYMARKET DR NEAR
 BRIAR COVE TERR. APPTS

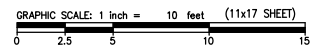


#4 - WAYMARKET DR NEAR
 BRIAR COVE TERR. APPTS

REMOVAL KEY

- 1 CONCRETE WALK, REMOVE
- 2 BRICK PAVER WALK, REMOVE & SALVAGE
- 3 PAVEMENT, REMOVE
- 4 LIGHT POLE, REMOVE
- 5 FOUNDATION, REMOVE
- 6 FIXTURE, REMOVE
- 7 FIXTURE, REMOVE & SALVAGE
- 8 FOUNDATION, PROTECT
- 9 HANDHOLE, REMOVE
- 10 LIGHT POLE, REMOVE & SALVAGE
- 11 LIGHT POLE, PROTECT

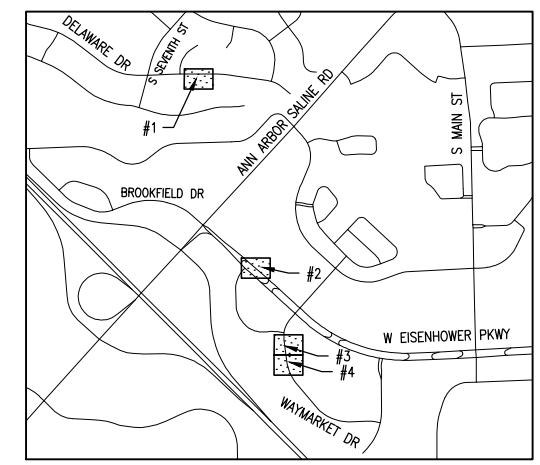
REMOVAL PLAN



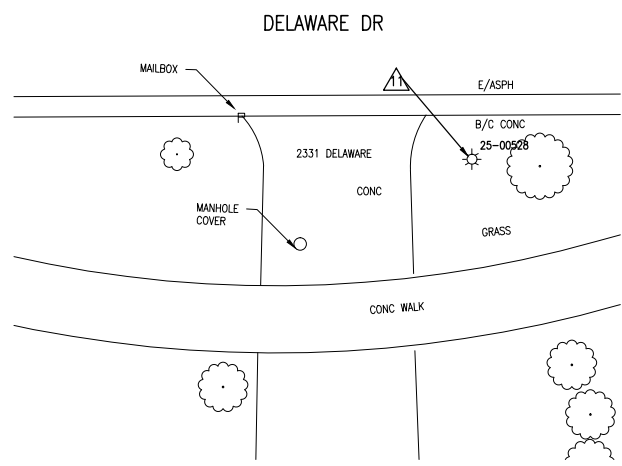
TOTAL	UNIT	DESCRIPTION
1	Ea	Foundation, Rem
3	Ea	Light Pole, Rem
1	Ea	Foundation, Light Pole
3	Ea	Light Pole, LP3
4	Ea	Fixture, Reinstall

CONSTRUCTION KEY

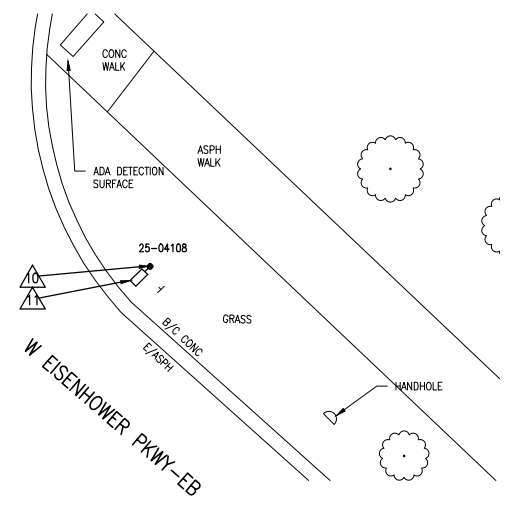
- 1 CONCRETE WALK
- 2 BRICK PAVER WALK, REINSTALL
- 3 ADA RAMP
- 4 CONCRETE PAVEMENT
- 5 HMA PAVEMENT
- 6 TOPSOIL, SEED & MULCH
- 7 POLE FOUNDATION
- 8 LIGHT POLE, LP1
- 9 LIGHT POLE, LP2
- 10 LIGHT POLE, LP3
- 11 FIXTURE, REINSTALL
- 12 FIXTURE, SL1
- 13 FIXTURE, SL2
- 14 FIXTURE, SL3
- 15 HANDHOLE
- 16 LIGHT POLE, REINSTALL



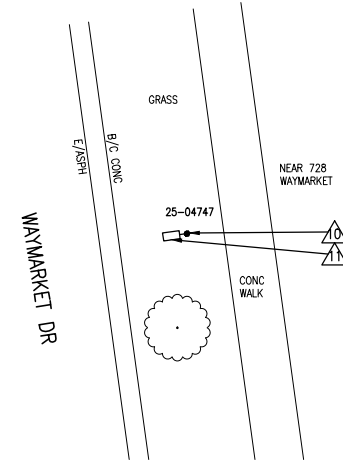
KEY PLAN
 NOT TO SCALE



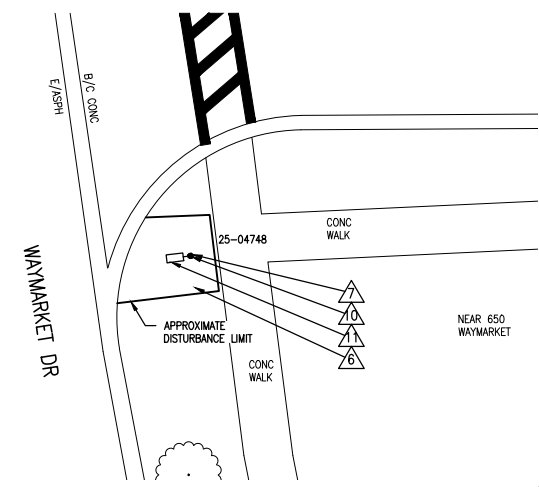
#1 - 2331 DELAWARE DR
 EAST OF TILSBY CT



#2 - W EISENHOWER PKWY-EB
 AT CRANBROOK VILLAGE ENTRANCE

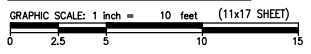


#3 - WAYMARKET DR NEAR
 BRIAR COVE TERR. APPTS



#4 - WAYMARKET DR NEAR
 BRIAR COVE TERR. APPTS

CONSTRUCTION PLAN



REVISIONS:
 11-28-18 BID SET
 12-14-18 ADDENDUM No. 1 REVISIONS

CITY OF ANN ARBOR
 ITB NO. 4557 2019 STREET LIGHT REPLACEMENT
 REMOVAL & CONSTRUCTION PLAN

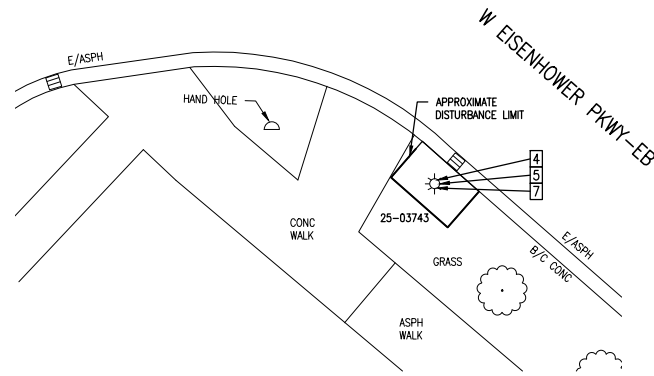


Know what's below.
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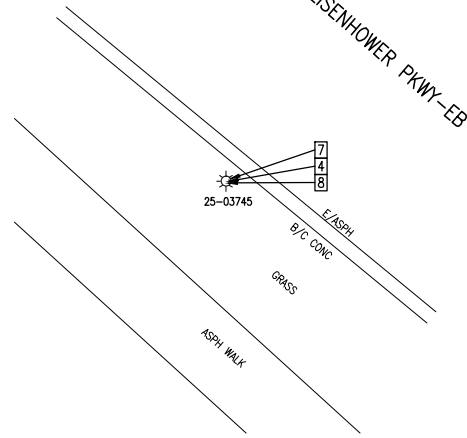
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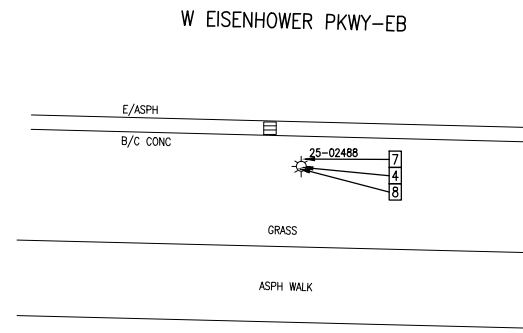
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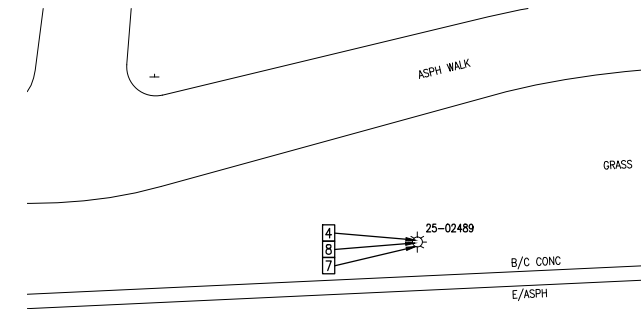
#1 - W EISENHOWER PKWY-EB AT WAYMARKET DR



#2 - W EISENHOWER PKWY-EB EAST OF WAYMARKET DR



#3 - W EISENHOWER PKWY-EB AT MICHIGAN LEFT EAST OF SIGNATURE BLVD



#4 - W EISENHOWER PKWY-WB AT MICHIGAN LEFT EAST OF SIGNATURE BLVD

REMOVAL KEY

- 1 CONCRETE WALK, REMOVE
- 2 BRICK PAVER WALK, REMOVE & SALVAGE
- 3 PAVEMENT, REMOVE
- 4 LIGHT POLE, REMOVE
- 5 FOUNDATION, REMOVE
- 6 FIXTURE, REMOVE
- 7 FIXTURE, REMOVE & SALVAGE
- 8 FOUNDATION, PROTECT
- 9 HANDHOLE, REMOVE
- 10 LIGHT POLE, REMOVE & SALVAGE
- 11 LIGHT POLE, PROTECT

REMOVAL PLAN

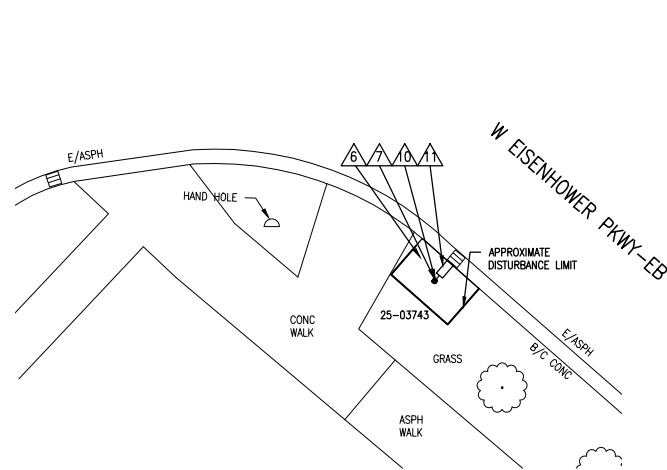
GRAPHIC SCALE: 1 inch = 10 feet (11x17 SHEET)

QUANTITIES THIS SHEET

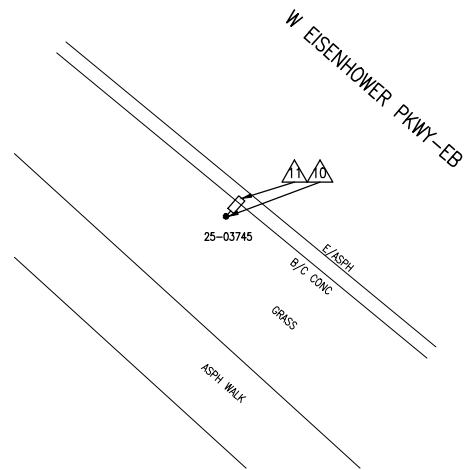
TOTAL	UNIT	DESCRIPTION
1	Ea	Foundation, Rem
4	Ea	Light Pole, Rem
1	Ea	Foundation, Light Pole
4	Ea	Light Pole, LP3
4	Ea	Fixture, Reinstall

CONSTRUCTION KEY

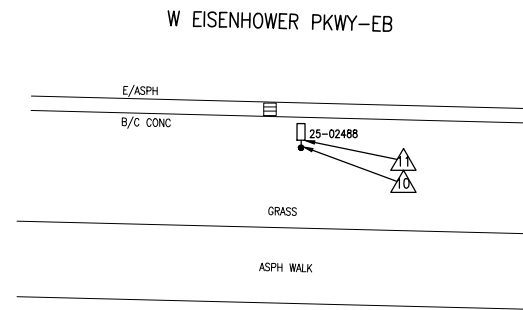
- 1 CONCRETE WALK
- 2 BRICK PAVER WALK, REINSTALL
- 3 ADA RAMP
- 4 CONCRETE PAVEMENT
- 5 HMA PAVEMENT
- 6 TOPSOIL, SEED & MULCH
- 7 POLE FOUNDATION
- 8 LIGHT POLE, LP1
- 9 LIGHT POLE, LP2
- 10 LIGHT POLE, LP3
- 11 FIXTURE, REINSTALL
- 12 FIXTURE, SL1
- 13 FIXTURE, SL2
- 14 FIXTURE, SL3
- 15 HANDHOLE
- 16 LIGHT POLE, REINSTALL



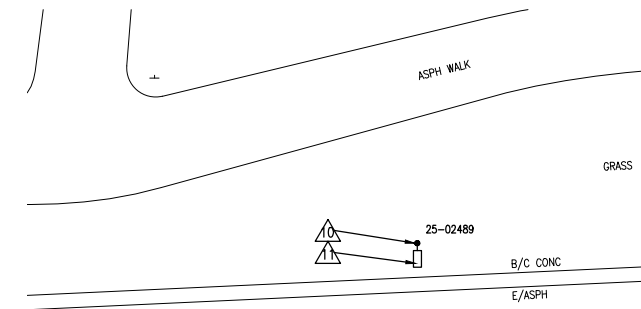
#1 - W EISENHOWER PKWY-EB AT WAYMARKET DR



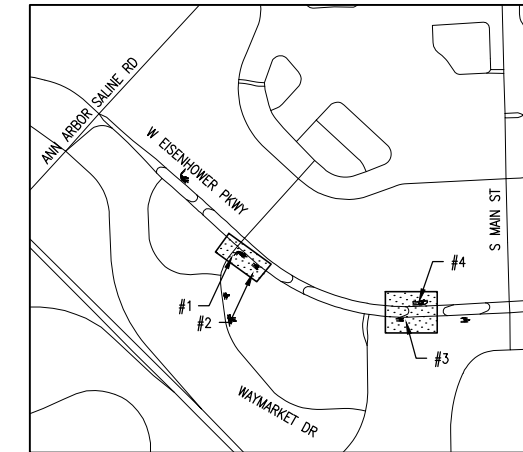
#2 - W EISENHOWER PKWY-EB EAST OF WAYMARKET DR



#3 - W EISENHOWER PKWY-EB AT MICHIGAN LEFT EAST OF SIGNATURE BLVD



#4 - W EISENHOWER PKWY-WB AT MICHIGAN LEFT EAST OF SIGNATURE BLVD



KEY PLAN
NOT TO SCALE



OHM
ARCHITECTS ENGINEERS PLANNERS
34000 Plymouth Road
Livonia, MI 48150
P (734) 522-6711 | F (734) 522-6427
OHM-ADVISORS.COM

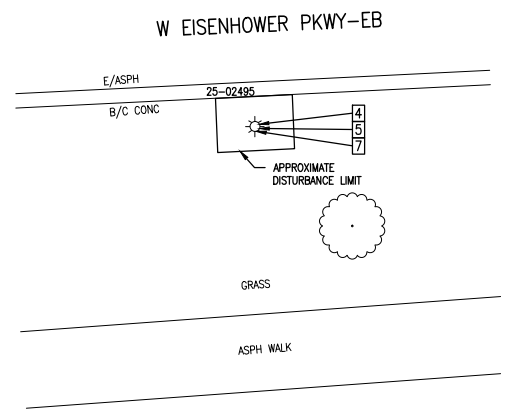
REVISIONS:
11-28-18 BID SET
12-14-18 ADDENDUM No. 1 REVISIONS

CITY OF ANN ARBOR
ITB NO. 4557 2019 STREET LIGHT REPLACEMENT
REMOVAL & CONSTRUCTION PLAN

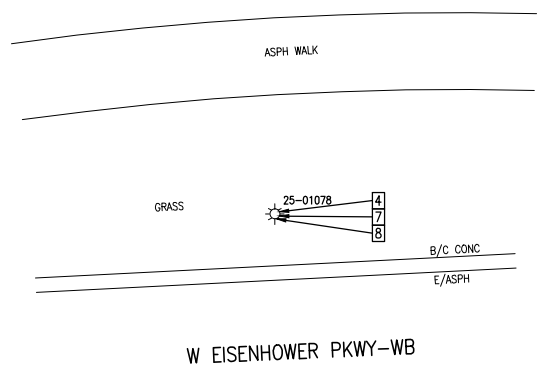


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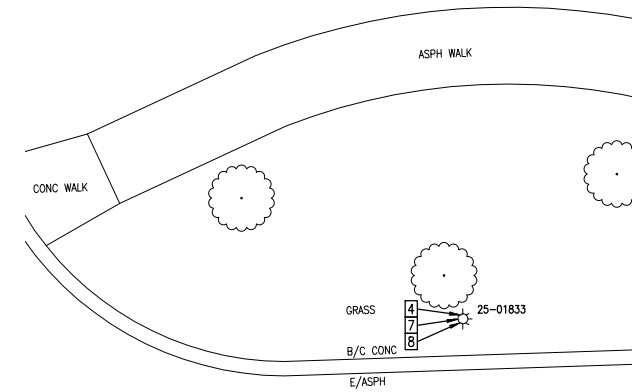
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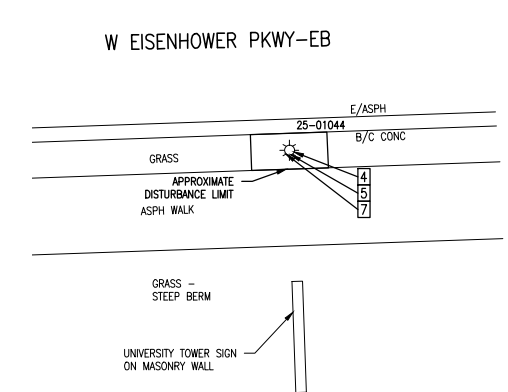
#1 - W EISENHOWER PKWY-EB
WEST OF S MAIN ST



#2 - W EISENHOWER PKWY-WB
FIRST STREET LIGHT EAST OF S MAIN ST



#3 - W EISENHOWER PKWY-WB AT
BURLINGTON WOODS CIR

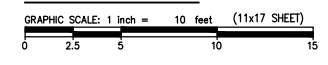


#4 - E EISENHOWER PKWY-EB
EAST OF S STATE ST

REMOVAL KEY

- 1 CONCRETE WALK, REMOVE
- 2 BRICK PAVER WALK, REMOVE & SALVAGE
- 3 PAVEMENT, REMOVE
- 4 LIGHT POLE, REMOVE
- 5 FOUNDATION, REMOVE
- 6 FIXTURE, REMOVE
- 7 FIXTURE, REMOVE & SALVAGE
- 8 FOUNDATION, PROTECT
- 9 HANDHOLE, REMOVE
- 10 LIGHT POLE, REMOVE & SALVAGE
- 11 LIGHT POLE, PROTECT

REMOVAL PLAN



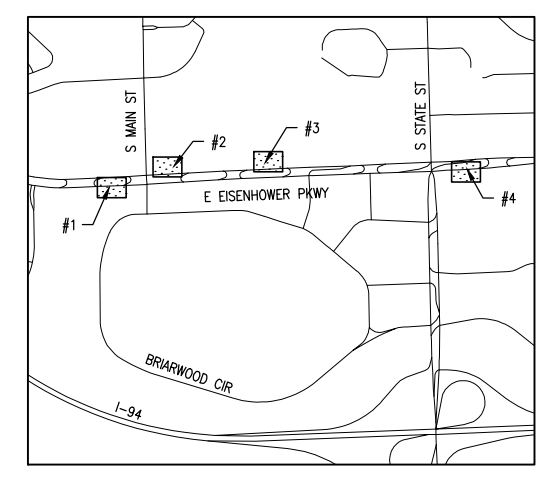
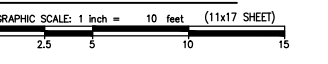
QUANTITIES THIS SHEET

TOTAL	UNIT	DESCRIPTION
2	Ea	Foundation, Rem
4	Ea	Light Pole, Rem
2	Ea	Foundation, Light Pole
4	Ea	Light Pole, LP3
4	Ea	Fixture, Reinstall

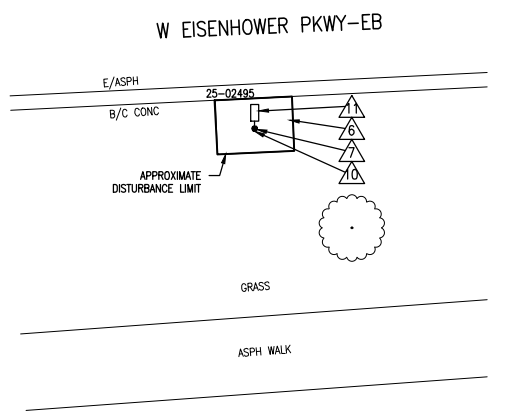
CONSTRUCTION KEY

- 1 CONCRETE WALK
- 2 BRICK PAVER WALK, REINSTALL
- 3 ADA RAMP
- 4 CONCRETE PAVEMENT
- 5 HMA PAVEMENT
- 6 TOPSOIL, SEED & MULCH
- 7 POLE FOUNDATION
- 8 LIGHT POLE, LP1
- 9 LIGHT POLE, LP2
- 10 LIGHT POLE, LP3
- 11 FIXTURE, REINSTALL
- 12 FIXTURE, SL1
- 13 FIXTURE, SL2
- 14 FIXTURE, SL3
- 15 HANDHOLE
- 16 LIGHT POLE, REINSTALL

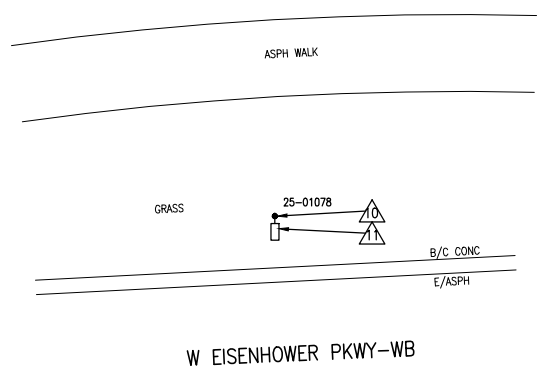
CONSTRUCTION PLAN



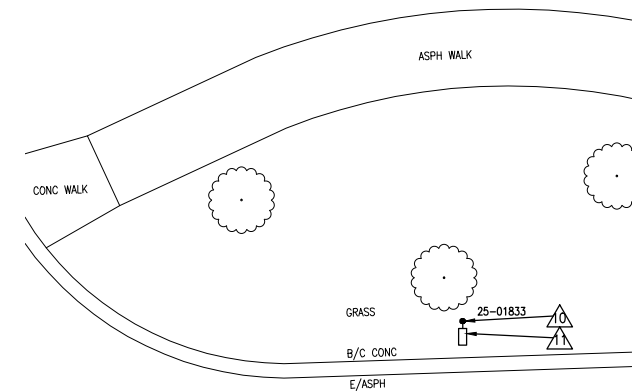
KEY PLAN
NOT TO SCALE



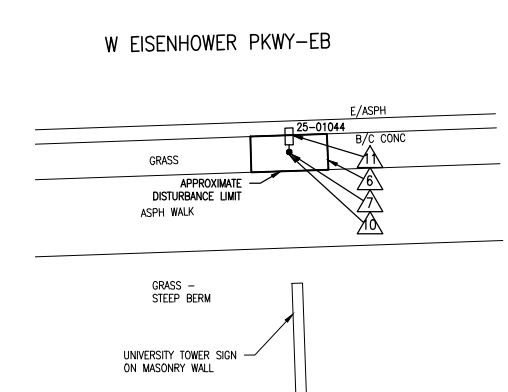
#1 - W EISENHOWER PKWY-EB
WEST OF S MAIN ST



#2 - W EISENHOWER PKWY-WB
FIRST STREET LIGHT EAST OF S MAIN ST



#3 - W EISENHOWER PKWY-WB AT
BURLINGTON WOODS CIR



#4 - E EISENHOWER PKWY-EB
EAST OF S STATE ST

REVISIONS:
 11-28-18 BID SET
 12-14-18 ADDENDUM No. 1 REVISIONS

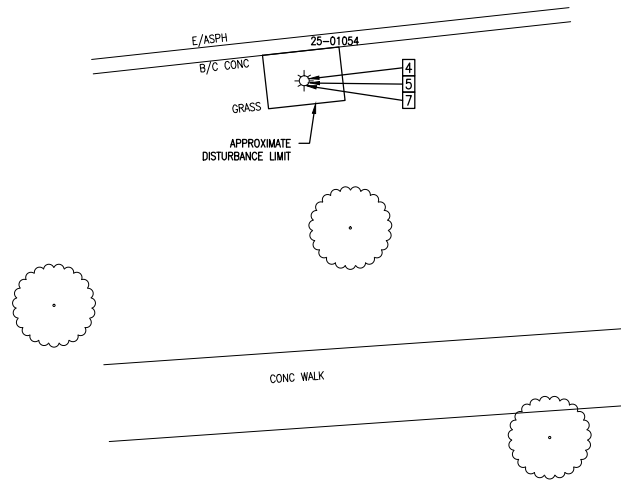
CITY OF ANN ARBOR
 ITB NO. 4557 2019 STREET LIGHT REPLACEMENT
 REMOVAL & CONSTRUCTION PLAN



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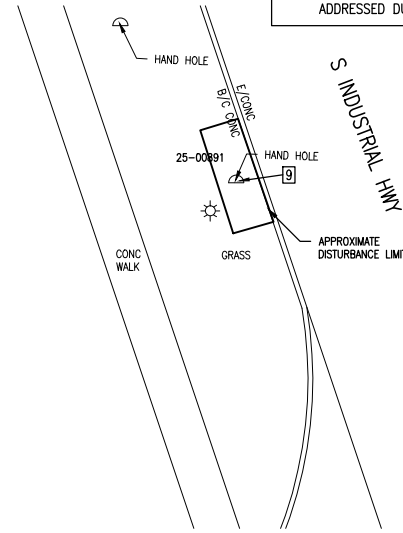
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W EISENHOWER PKWY-EB

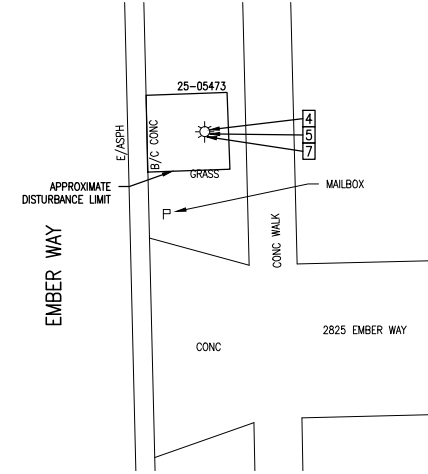


#1 - E EISENHOWER PKWY-EB WEST OF BOARDWALK DR

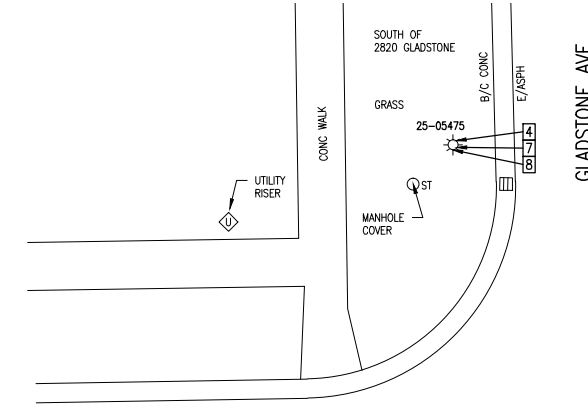
NOTE: POLE LOCATION 25-00891 MAY HAVE DAMAGED WIRES TO BE ADDRESSED DURING CONSTRUCTION



#2 - S INDUSTRIAL HWY ACROSS FROM 2805 S INDUSTRIAL HWY



#3 - AT 2825 EMBER WAY



#4 - NW CORNER OF GLADSTONE AVE & EMBER WAY INTERSECTION

REMOVAL KEY

- 1 CONCRETE WALK, REMOVE
- 2 BRICK PAVER WALK, REMOVE & SALVAGE
- 3 PAVEMENT, REMOVE
- 4 LIGHT POLE, REMOVE
- 5 FOUNDATION, REMOVE
- 6 FIXTURE, REMOVE
- 7 FIXTURE, REMOVE & SALVAGE
- 8 FOUNDATION, PROTECT
- 9 HANDHOLE, REMOVE
- 10 LIGHT POLE, REMOVE & SALVAGE
- 11 LIGHT POLE, PROTECT

REMOVAL PLAN

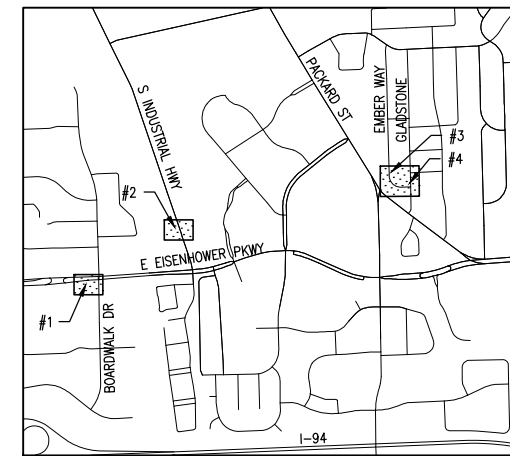
GRAPHIC SCALE: 1 inch = 10 feet (11x17 SHEET)

QUANTITIES THIS SHEET

TOTAL	UNIT	DESCRIPTION
1	Ea	Handhole, Rem
2	Ea	Foundation, Rem
3	Ea	Light Pole, Rem
1	Ea	Handhole, Streetlight
2	Ea	Foundation, Light Pole
3	Ea	Light Pole, LP3
3	Ea	Fixture, Reinstall

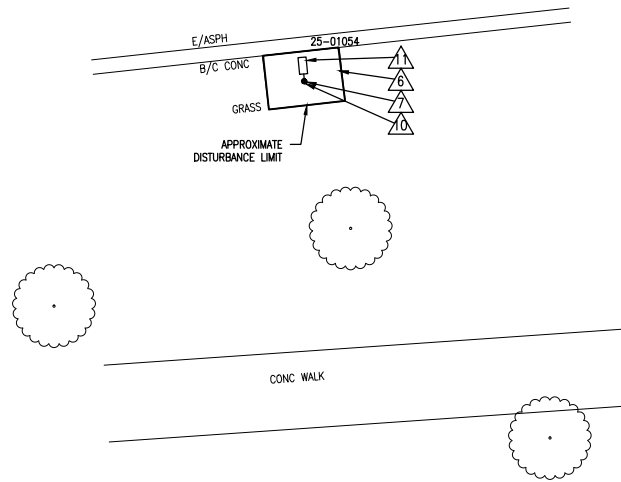
CONSTRUCTION KEY

- 1 CONCRETE WALK
- 2 BRICK PAVER WALK, REINSTALL
- 3 ADA RAMP
- 4 CONCRETE PAVEMENT
- 5 HMA PAVEMENT
- 6 TOPSOIL, SEED & MULCH
- 7 POLE FOUNDATION
- 8 LIGHT POLE, LP1
- 9 LIGHT POLE, LP2
- 10 LIGHT POLE, LP3
- 11 FIXTURE, REINSTALL
- 12 FIXTURE, SL1
- 13 FIXTURE, SL2
- 14 FIXTURE, SL3
- 15 HANDHOLE
- 16 LIGHT POLE, REINSTALL

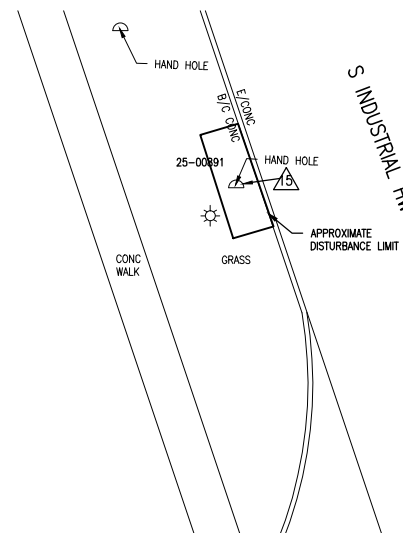


KEY PLAN
NOT TO SCALE

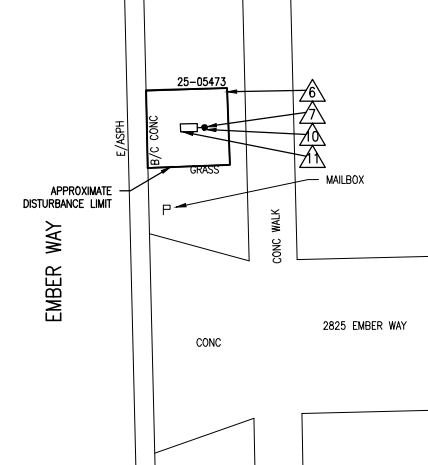
W EISENHOWER PKWY-EB



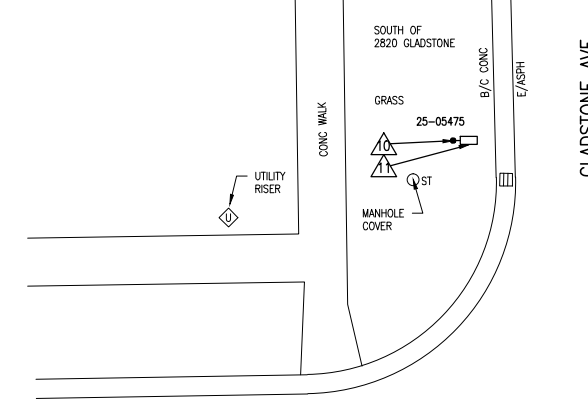
#1 - E EISENHOWER PKWY-EB WEST OF BOARDWALK DR



#2 - S INDUSTRIAL HWY ACROSS FROM 2805 S INDUSTRIAL HWY



#3 - AT 2825 EMBER WAY



#4 - NW CORNER OF GLADSTONE AVE & EMBER WAY INTERSECTION

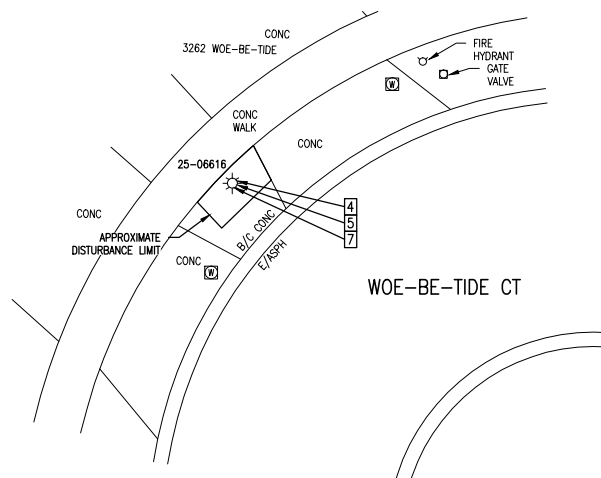
CONSTRUCTION PLAN

GRAPHIC SCALE: 1 inch = 10 feet (11x17 SHEET)

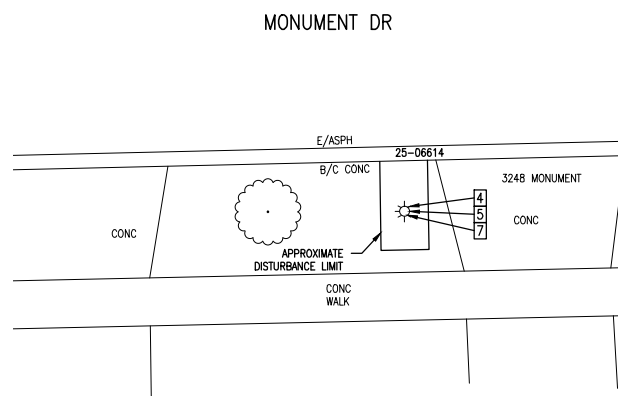


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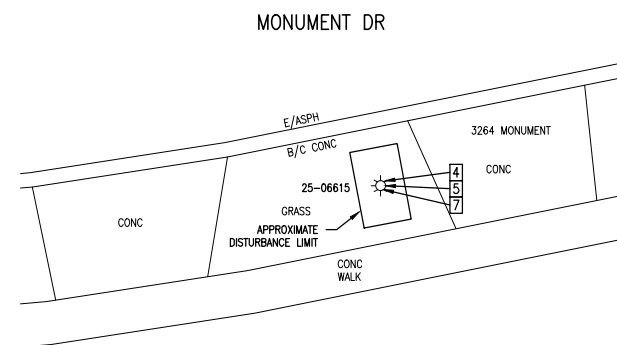
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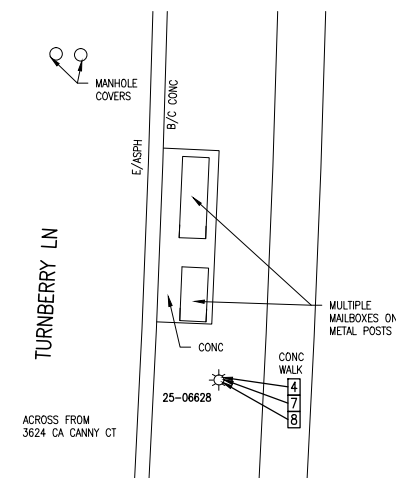
#1 - INNER PORTION OF WOE-BE-TIDE CT



#2 - MONUMENT DR WEST OF TURNBERRY LN



#3 - MONUMENT DR WEST OF TURNBERRY LN

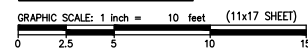


#4 - TURNBERRY LN NORTH OF CA CANNY CT

REMOVAL KEY

- 1 CONCRETE WALK, REMOVE
- 2 BRICK PAVER WALK, REMOVE & SALVAGE
- 3 PAVEMENT, REMOVE
- 4 LIGHT POLE, REMOVE
- 5 FOUNDATION, REMOVE
- 6 FIXTURE, REMOVE
- 7 FIXTURE, REMOVE & SALVAGE
- 8 FOUNDATION, PROTECT
- 9 HANDHOLE, REMOVE
- 10 LIGHT POLE, REMOVE & SALVAGE
- 11 LIGHT POLE, PROTECT

REMOVAL PLAN

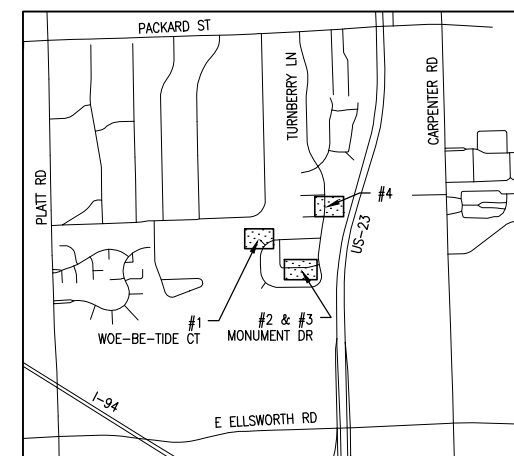


QUANTITIES THIS SHEET

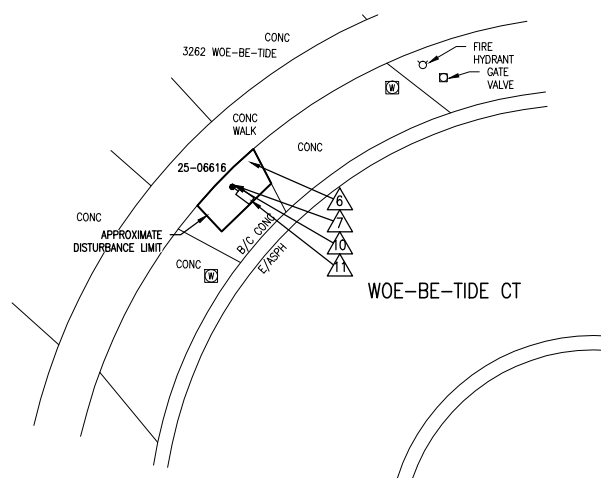
TOTAL	UNIT	DESCRIPTION
3	Ea	Foundation, Rem
4	Ea	Light Pole, Rem
3	Ea	Foundation, Light Pole
4	Ea	Light Pole, LP3
4	Ea	Fixture, Reinstall

CONSTRUCTION KEY

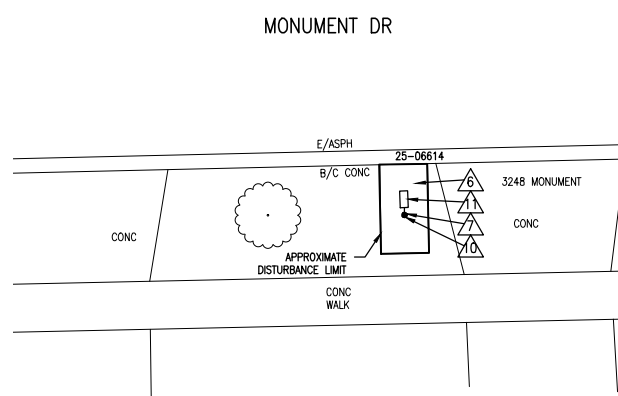
- 1 CONCRETE WALK
- 2 BRICK PAVER WALK, REINSTALL
- 3 ADA RAMP
- 4 CONCRETE PAVEMENT
- 5 HMA PAVEMENT
- 6 TOPSOIL, SEED & MULCH
- 7 POLE FOUNDATION
- 8 LIGHT POLE, LP1
- 9 LIGHT POLE, LP2
- 10 LIGHT POLE, LP3
- 11 FIXTURE, REINSTALL
- 12 FIXTURE, SL1
- 13 FIXTURE, SL2
- 14 FIXTURE, SL3
- 15 HANDHOLE
- 16 LIGHT POLE, REINSTALL



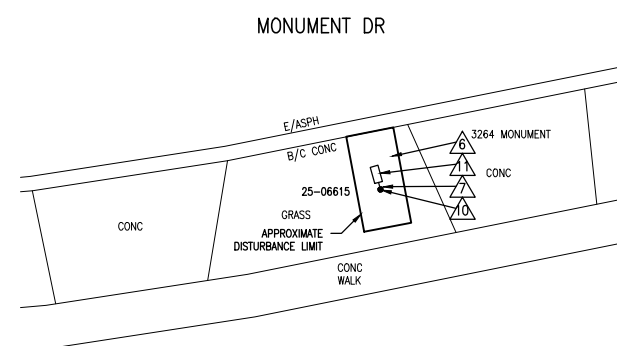
KEY PLAN
NOT TO SCALE



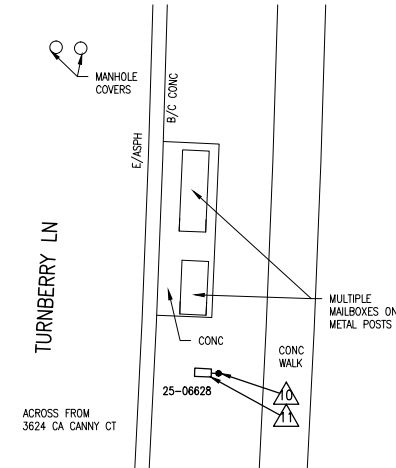
#1 - INNER PORTION OF WOE-BE-TIDE CT



#2 - MONUMENT DR WEST OF TURNBERRY LN

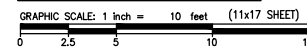


#3 - MONUMENT DR WEST OF TURNBERRY LN



#4 - TURNBERRY LN NORTH OF CA CANNY CT

CONSTRUCTION PLAN



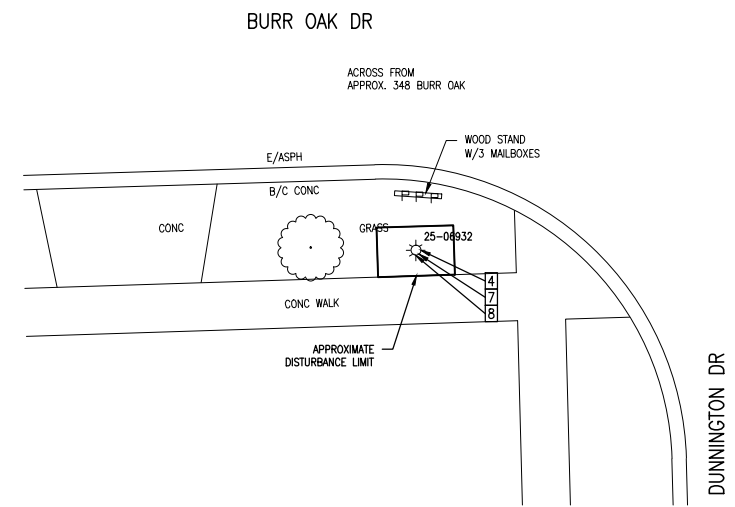
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REVISIONS:
 11-28-18 BID SET
 12-14-18 ADDENDUM No. 1 REVISIONS

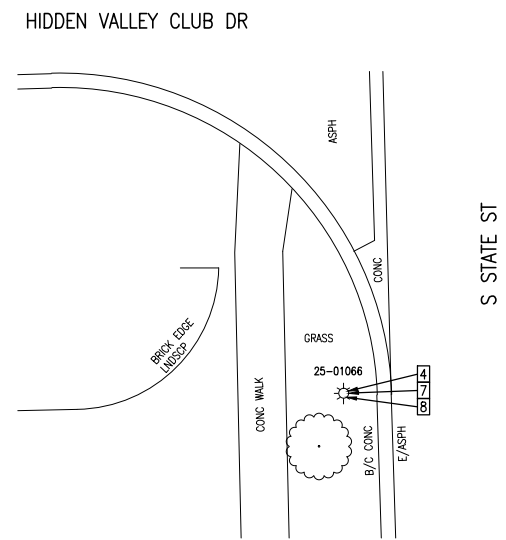
CITY OF ANN ARBOR
 ITB NO. 4557 2019 STREET LIGHT REPLACEMENT
 REMOVAL & CONSTRUCTION PLAN

DRAWING PATH: P:\0000_01000028180040_44_Street_LL_Replic_EY_19_CIPDrawings\ChilPlans_Consist\80040CON_01.dwg Date: 13, 2018 9:43am

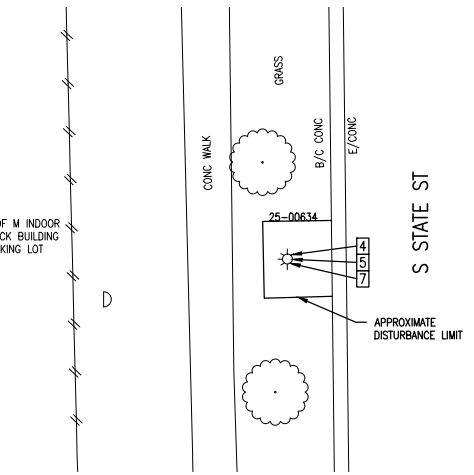
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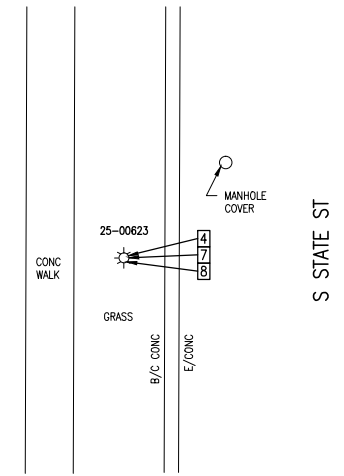
#1 - SW CORNER OF
 BURR OAK DR & DUNNINGTON DR



#2 - SW CORNER OF
 S STATE ST & HIDDEN VALLEY CLUB DR



#3 - S STATE ST
 FIRST POLE NORTHWEST OF VOLKSWAGEN OF
 ANN ARBOR
 2565 S STATE ST



#4 - ACROSS FROM
 ARBOR HILLS HAIR & BODY SALON
 2295 S STATE ST

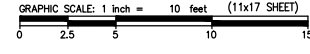
REMOVAL KEY

- 1 CONCRETE WALK, REMOVE
- 2 BRICK PAVER WALK, REMOVE & SALVAGE
- 3 PAVEMENT, REMOVE
- 4 LIGHT POLE, REMOVE
- 5 FOUNDATION, REMOVE
- 6 FIXTURE, REMOVE
- 7 FIXTURE, REMOVE & SALVAGE
- 8 FOUNDATION, PROTECT
- 9 HANDHOLE, REMOVE
- 10 LIGHT POLE, REMOVE & SALVAGE
- 11 LIGHT POLE, PROTECT

CONSTRUCTION KEY

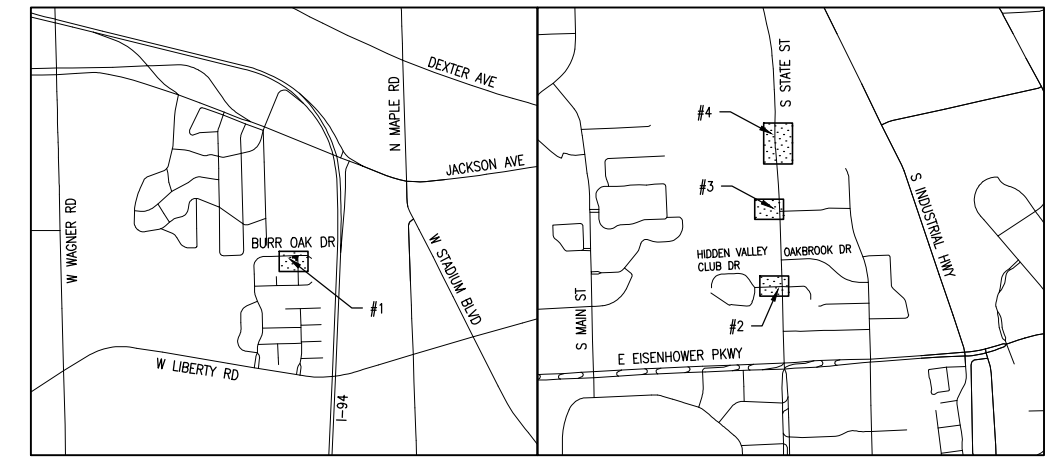
- 1 CONCRETE WALK
- 2 BRICK PAVER WALK, REINSTALL
- 3 ADA RAMP
- 4 CONCRETE PAVEMENT
- 5 HMA PAVEMENT
- 6 TOPSOIL, SEED & MULCH
- 7 POLE FOUNDATION
- 8 LIGHT POLE, LP1
- 9 LIGHT POLE, LP2
- 10 LIGHT POLE, LP3
- 11 FIXTURE, REINSTALL
- 12 FIXTURE, SL1
- 13 FIXTURE, SL2
- 14 FIXTURE, SL3
- 15 HANDHOLE
- 16 LIGHT POLE, REINSTALL

REMOVAL PLAN

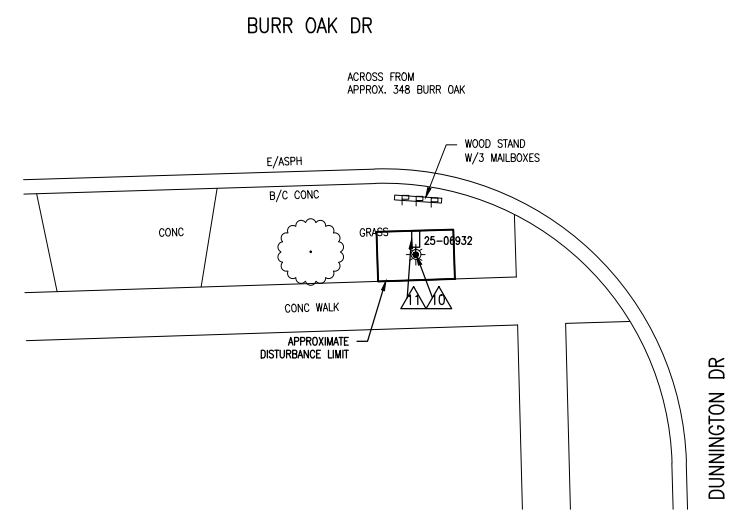


QUANTITIES THIS SHEET

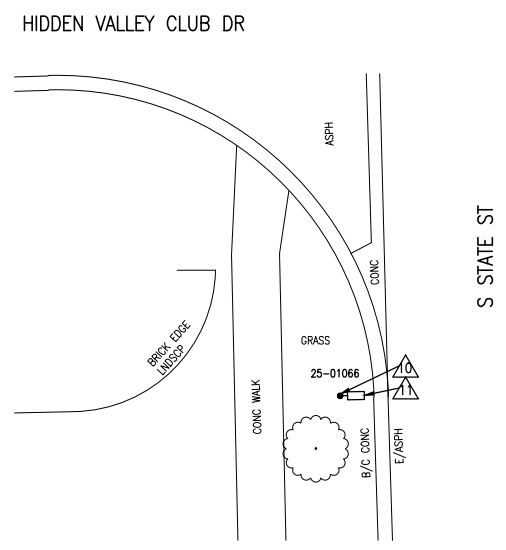
TOTAL	UNIT	DESCRIPTION
1	Ea	Foundation, Rem
4	Ea	Light Pole, Rem
1	Ea	Foundation, Light Pole
4	Ea	Light Pole, LP3
4	Ea	Fixture, Reinstall



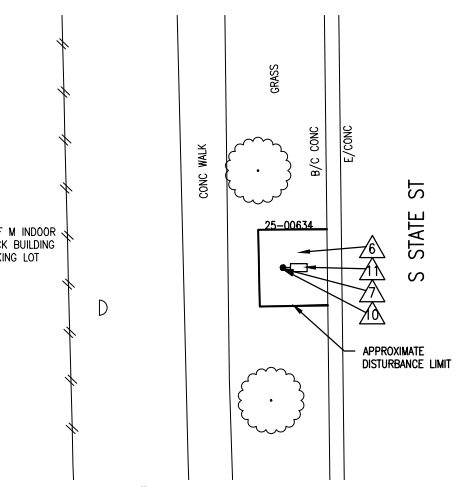
KEY PLAN
 NOT TO SCALE



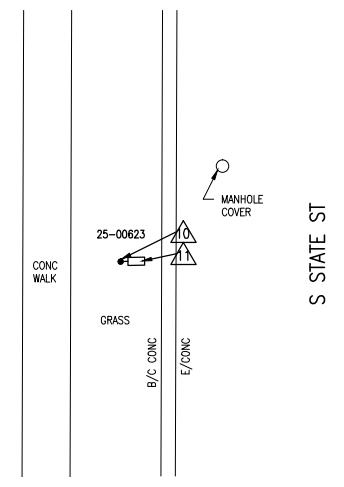
#1 - SW CORNER OF
 BURR OAK DR & DUNNINGTON DR



#2 - SW CORNER OF
 S STATE ST & HIDDEN VALLEY CLUB DR

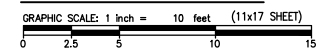


#3 - S STATE ST
 FIRST POLE NORTHWEST OF VOLKSWAGEN OF
 ANN ARBOR
 2565 S STATE ST



#4 - ACROSS FROM
 ARBOR HILLS HAIR & BODY SALON
 2295 S STATE ST

CONSTRUCTION PLAN

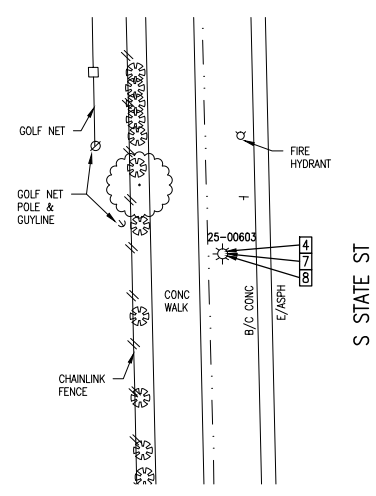


REVISIONS:
 11-28-18 BID SET
 12-14-18 ADDENDUM No. 1 REVISIONS

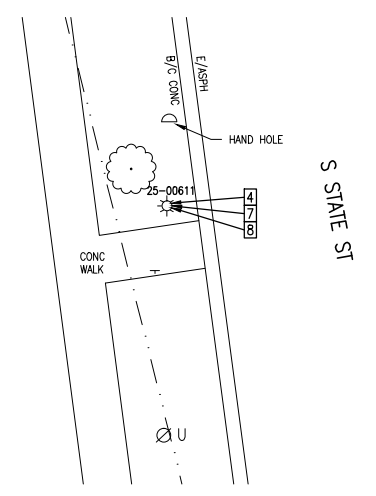
CITY OF ANN ARBOR
 ITB NO. 4557 2019 STREET LIGHT REPLACEMENT
 REMOVAL & CONSTRUCTION PLAN

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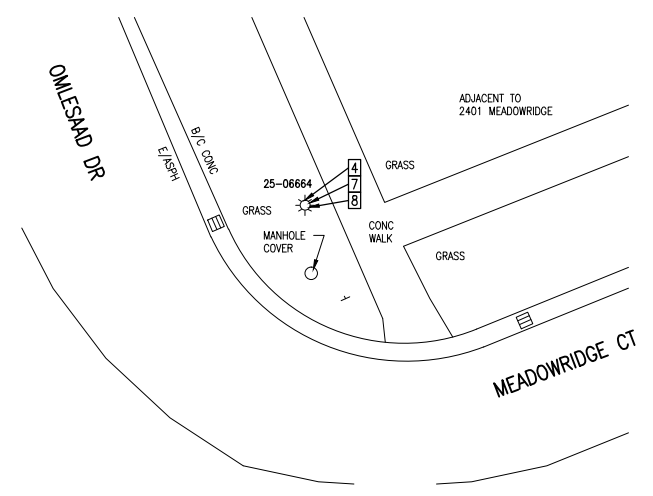
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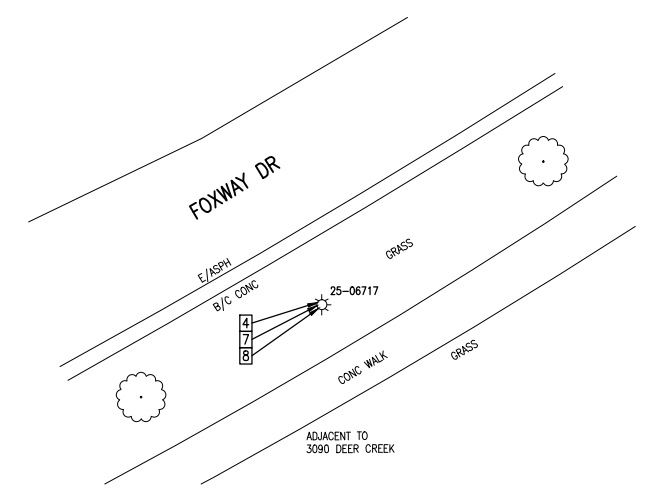
#1 - ACROSS FROM NORTH ENTRANCE OF THE PRODUCE STATION
 1629 S STATE ST



#2 - S STATE ST BUS STOP AT DANIELS & ZERMACK ARCHITECTS
 2080 S STATE ST



#3 - OMLESAAD DR AT MEADOWRIDGE CT



#4 - FOXWAY DR EAST OF HOME AT DEER CREEK CT INTERSECTION

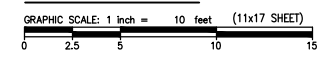
REMOVAL KEY

- 1 CONCRETE WALK, REMOVE
- 2 BRICK PAVER WALK, REMOVE & SALVAGE
- 3 PAVEMENT, REMOVE
- 4 LIGHT POLE, REMOVE
- 5 FOUNDATION, REMOVE
- 6 FIXTURE, REMOVE
- 7 FIXTURE, REMOVE & SALVAGE
- 8 FOUNDATION, PROTECT
- 9 HANDHOLE, REMOVE
- 10 LIGHT POLE, REMOVE & SALVAGE
- 11 LIGHT POLE, PROTECT

CONSTRUCTION KEY

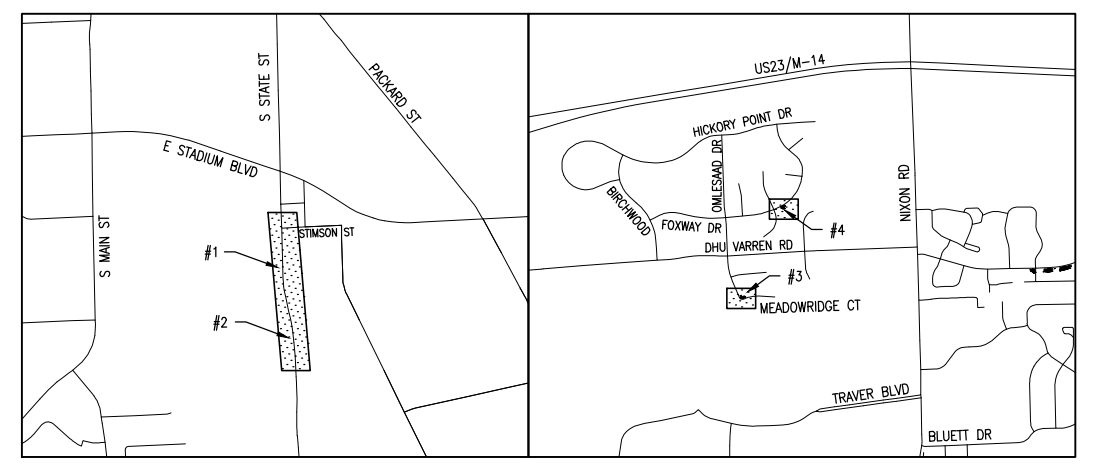
- 1 CONCRETE WALK
- 2 BRICK PAVER WALK, REINSTALL
- 3 ADA RAMP
- 4 CONCRETE PAVEMENT
- 5 HMA PAVEMENT
- 6 TOPSOIL, SEED & MULCH
- 7 POLE FOUNDATION
- 8 LIGHT POLE, LP1
- 9 LIGHT POLE, LP2
- 10 LIGHT POLE, LP3
- 11 FIXTURE, REINSTALL
- 12 FIXTURE, SL1
- 13 FIXTURE, SL2
- 14 FIXTURE, SL3
- 15 HANDHOLE
- 16 LIGHT POLE, REINSTALL

REMOVAL PLAN

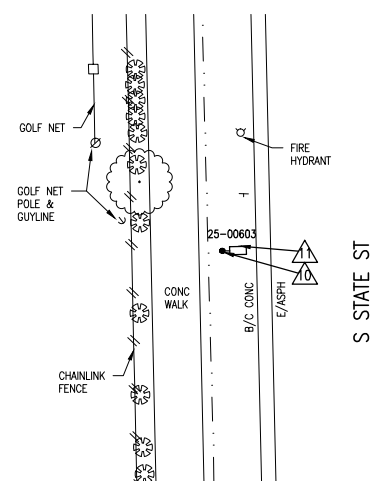


QUANTITIES THIS SHEET

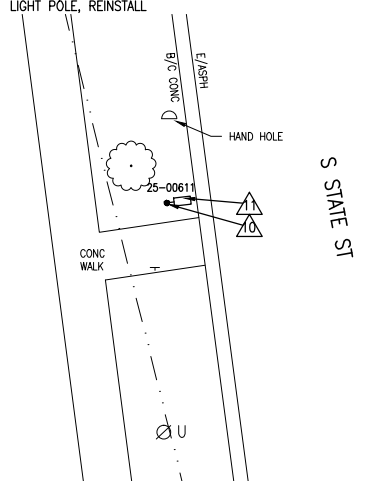
TOTAL	UNIT	DESCRIPTION
4	Ea	Light Pole, Rem
4	Ea	Light Pole, LP3
4	Ea	Fixture, Reinstall



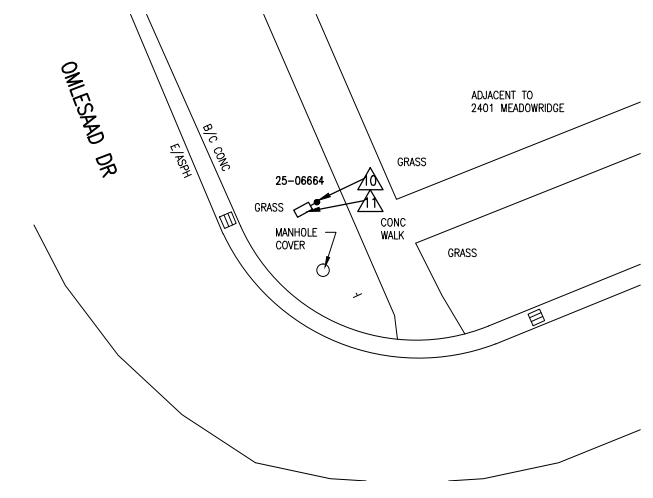
KEY PLAN
 NOT TO SCALE



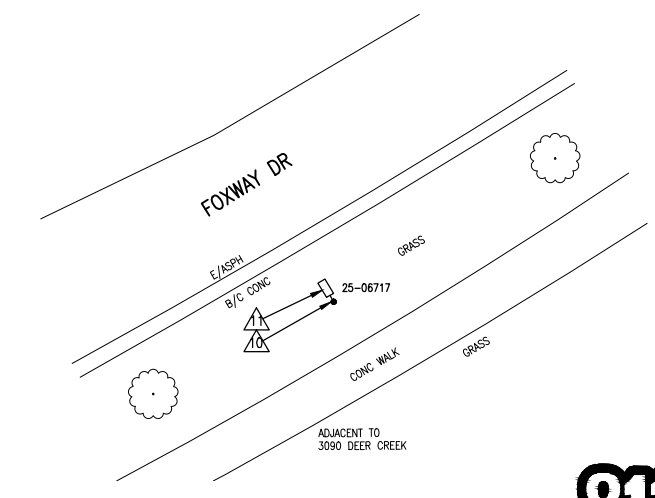
#1 - ACROSS FROM NORTH ENTRANCE OF THE PRODUCE STATION
 1629 S STATE ST



#2 - S STATE ST BUS STOP AT DANIELS & ZERMACK ARCHITECTS
 2080 S STATE ST

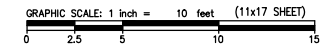


#3 - OMLESAAD DR AT MEADOWRIDGE CT



#4 - FOXWAY DR EAST OF HOME AT DEER CREEK CT INTERSECTION

CONSTRUCTION PLAN



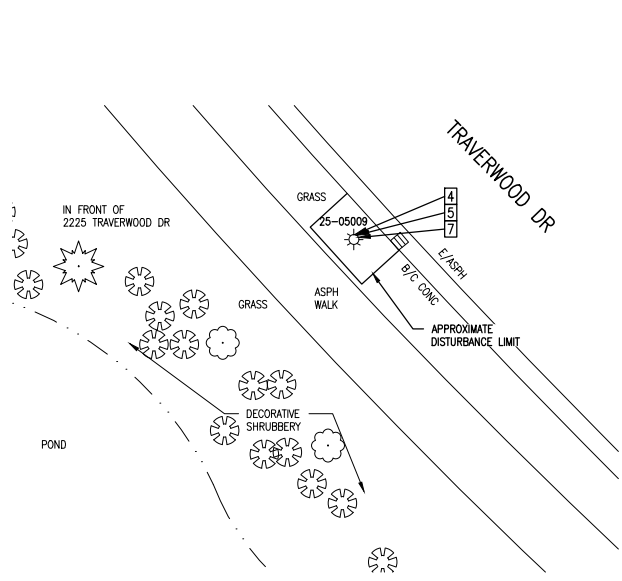
Know what's below.
 Call before you dig.

REVISIONS:
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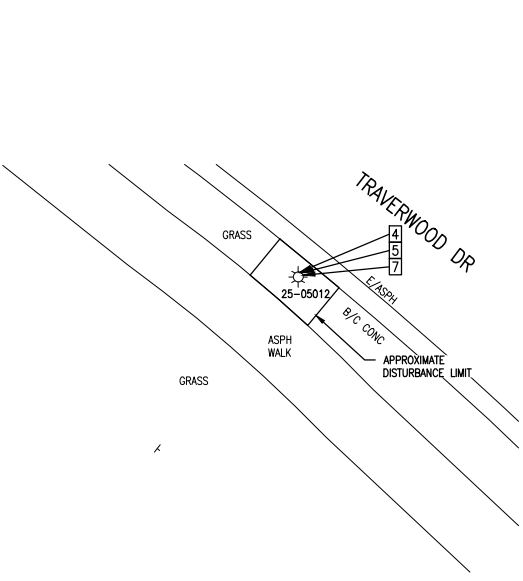
CITY OF ANN ARBOR
 ITB NO. 4557 2019 STREET LIGHT REPLACEMENT
 REMOVAL & CONSTRUCTION PLAN

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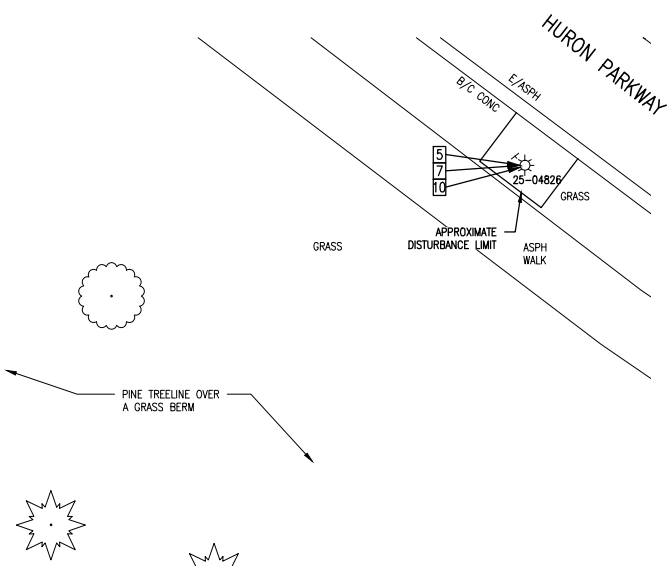
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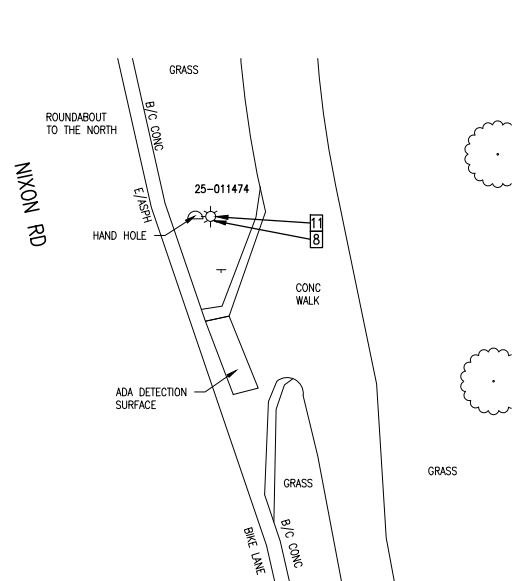
#1 - TRAVERWOOD DR SOUTH OF NORTH DEVON CIR INTERSECTION



#2 - TRAVERWOOD DR ACROSS FROM U OF M ALCOHOL MGMT 2025 TRAVERWOOD DR



#3 - HURON PKWY 100 FT EAST OF WEST DRIVEWAY TO KROGER 2641 PLYMOUTH RD



#4 - NIXON RD BIKE MERGE SOUTH OF HURON PKWY & PEDESTRIAN CROSSWALK

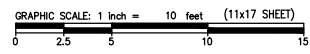
REMOVAL KEY

- 1 CONCRETE WALK, REMOVE
- 2 BRICK PAVER WALK, REMOVE & SALVAGE
- 3 PAVEMENT, REMOVE
- 4 LIGHT POLE, REMOVE
- 5 FOUNDATION, REMOVE
- 6 FIXTURE, REMOVE
- 7 FIXTURE, REMOVE & SALVAGE
- 8 FOUNDATION, PROTECT
- 9 HANDHOLE, REMOVE
- 10 LIGHT POLE, REMOVE & SALVAGE
- 11 LIGHT POLE, PROTECT

CONSTRUCTION KEY

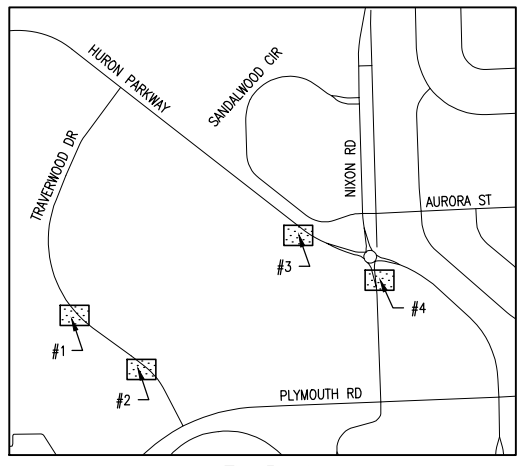
- 1 CONCRETE WALK
- 2 BRICK PAVER WALK, REINSTALL
- 3 ADA RAMP
- 4 CONCRETE PAVEMENT
- 5 HMA PAVEMENT
- 6 TOPSOIL, SEED & MULCH
- 7 POLE FOUNDATION
- 8 LIGHT POLE, LP1
- 9 LIGHT POLE, LP2
- 10 LIGHT POLE, LP3
- 11 FIXTURE, REINSTALL
- 12 FIXTURE, SL1
- 13 FIXTURE, SL2
- 14 FIXTURE, SL3
- 15 HANDHOLE
- 16 LIGHT POLE, REINSTALL

REMOVAL PLAN



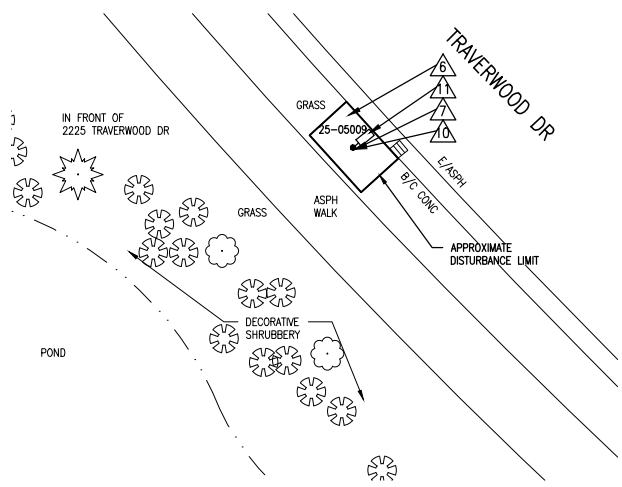
QUANTITIES THIS SHEET

TOTAL	UNIT	DESCRIPTION
3	Ea	Foundation, Rem
2	Ea	Light Pole, Rem
3	Ea	Foundation, Light Pole
2	Ea	Light Pole, LP3
3	Ea	Fixture, Reinstall

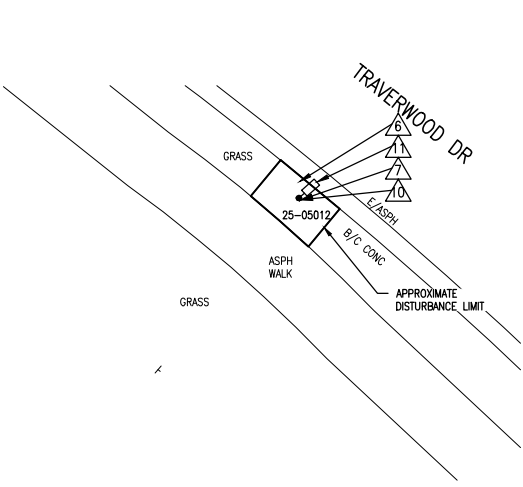


KEY PLAN
NOT TO SCALE

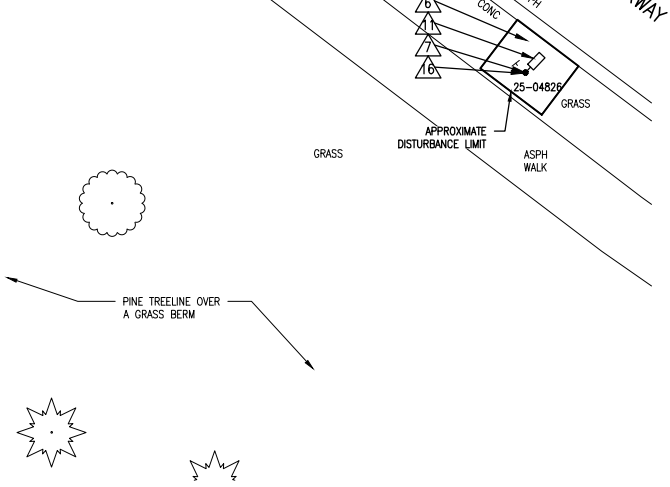
NOTE: POLE LOCATION 25-011474 HAS A LOOSE BRACKET AT POLE ARM. PROVIDE NEW HARDWARE KIT IF NECESSARY



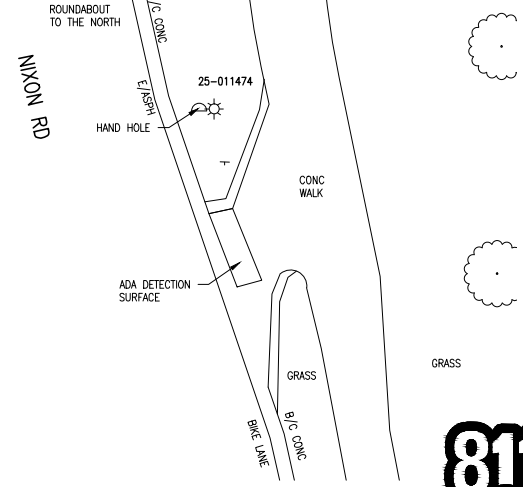
#1 - TRAVERWOOD DR SOUTH OF NORTH DEVON CIR INTERSECTION



#2 - TRAVERWOOD DR ACROSS FROM U OF M ALCOHOL MGMT 2025 TRAVERWOOD DR

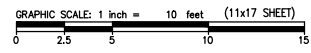


#3 - HURON PKWY 100 FT EAST OF WEST DRIVEWAY TO KROGER 2641 PLYMOUTH RD



#4 - NIXON RD BIKE MERGE SOUTH OF HURON PKWY & PEDESTRIAN CROSSWALK

CONSTRUCTION PLAN

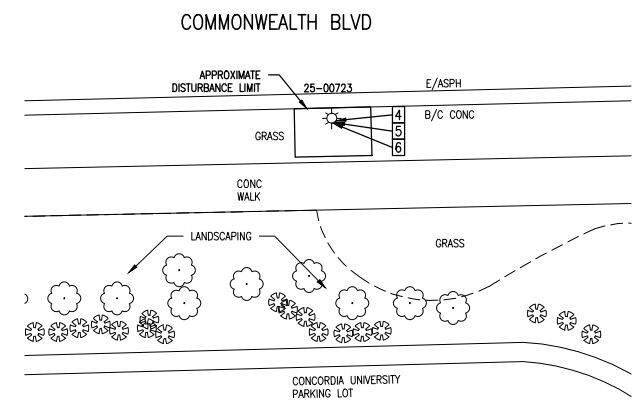


REVISIONS:
 11-28-18 BID SET
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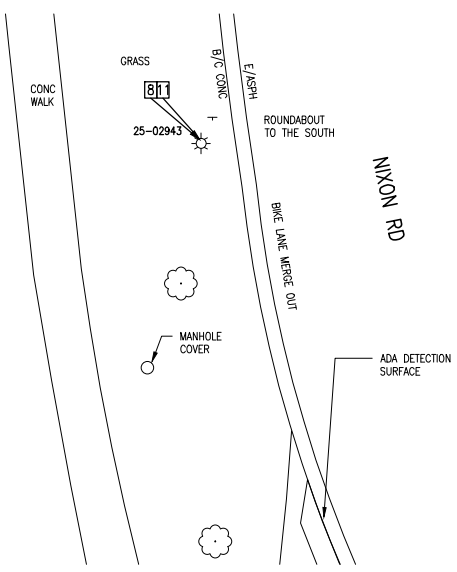
CITY OF ANN ARBOR
 ITB NO. 4557 2019 STREET LIGHT REPLACEMENT
 REMOVAL & CONSTRUCTION PLAN

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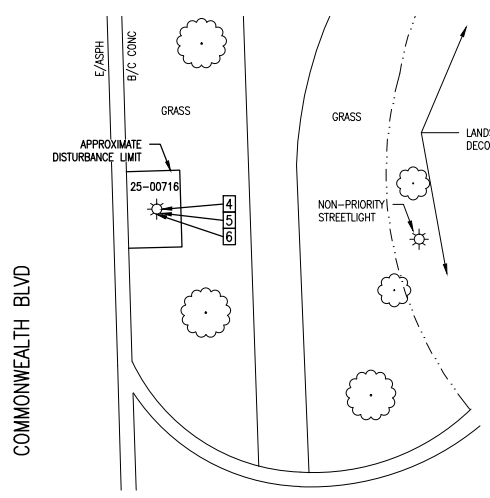
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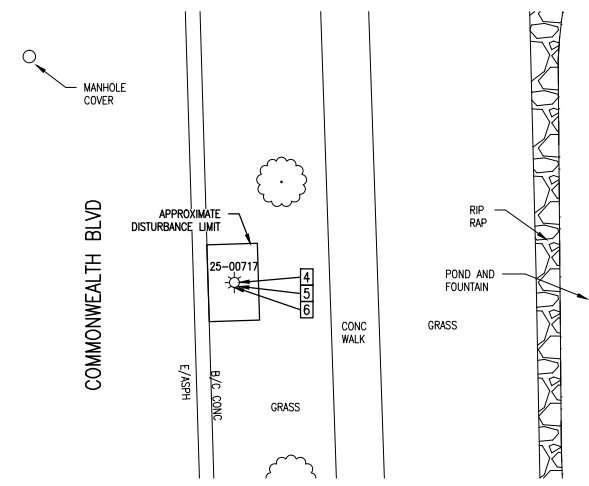
#4 - COMMONWEALTH BLVD WEST OF GREEN RD INTERSECTION



#1 - NIXON RD BIKE MERGE NORTH OF HURON PKWY & PEDESTRIAN CROSSWALK

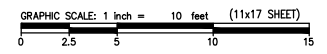


#2 - COMMONWEALTH BLVD SOUTH SIDE 2100 COMMONWEALTH BLVD PARKING



#3 - COMMONWEALTH BLVD ACROSS 2100 COMMONWEALTH BLVD PARKING

REMOVAL PLAN



TOTAL	UNIT	DESCRIPTION
3	Ea	Foundation, Rem
3	Ea	Light Pole, Rem
3	Ea	Foundation, Light Pole
3	Ea	Light Pole, LP3
3	Ea	Fixture, SL3
1	Ea	Fixture, Reinstall

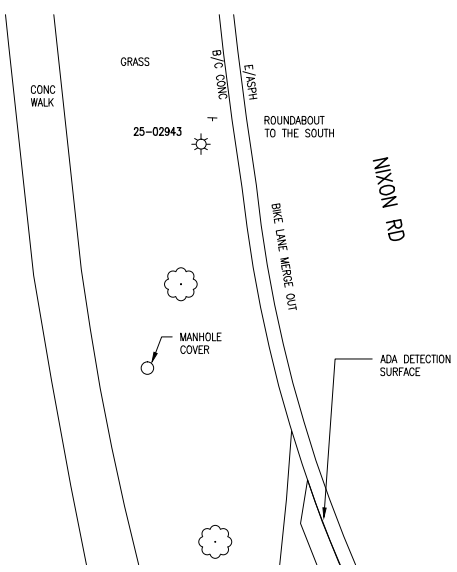
REMOVAL KEY

- 1 CONCRETE WALK, REMOVE
- 2 BRICK PAVER WALK, REMOVE & SALVAGE
- 3 PAVEMENT, REMOVE
- 4 LIGHT POLE, REMOVE
- 5 FOUNDATION, REMOVE
- 6 FIXTURE, REMOVE
- 7 FIXTURE, REMOVE & SALVAGE
- 8 FOUNDATION, PROTECT
- 9 HANDHOLE, REMOVE
- 10 LIGHT POLE, REMOVE & SALVAGE
- 11 LIGHT POLE, PROTECT

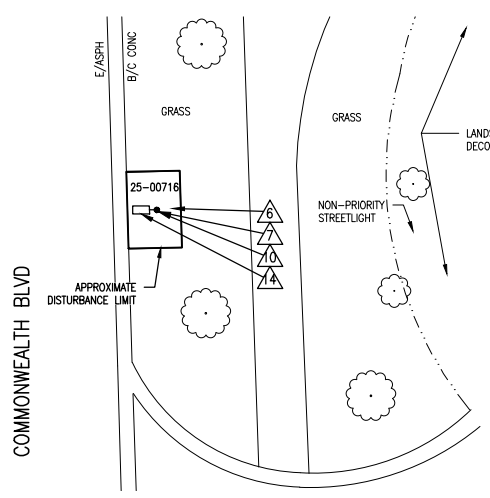
CONSTRUCTION KEY

- 1 CONCRETE WALK
- 2 BRICK PAVER WALK, REINSTALL
- 3 ADA RAMP
- 4 CONCRETE PAVEMENT
- 5 HMA PAVEMENT
- 6 TOPSOIL, SEED & MULCH
- 7 POLE FOUNDATION
- 8 LIGHT POLE, LP1
- 9 LIGHT POLE, LP2
- 10 LIGHT POLE, LP3
- 11 FIXTURE, REINSTALL
- 12 FIXTURE, SL1
- 13 FIXTURE, SL2
- 14 FIXTURE, SL3
- 15 HANDHOLE
- 16 LIGHT POLE, REINSTALL

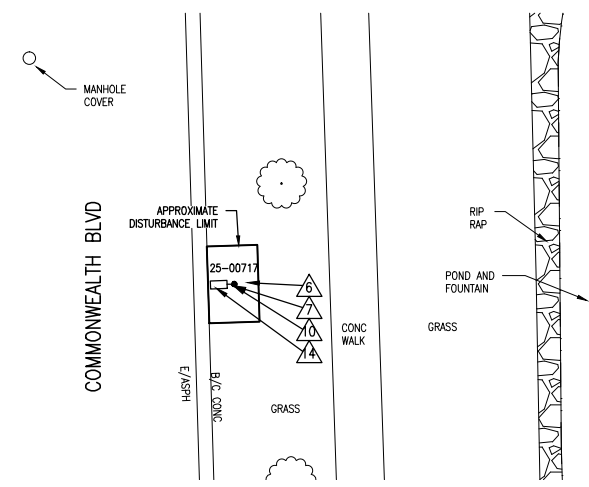
NOTE: POLE LOCATION 25-02943 HAS LOOSE WIRING. TO BE ADDRESSED DURING CONSTRUCTION



#1 - NIXON RD BIKE MERGE NORTH OF HURON PKWY & PEDESTRIAN CROSSWALK

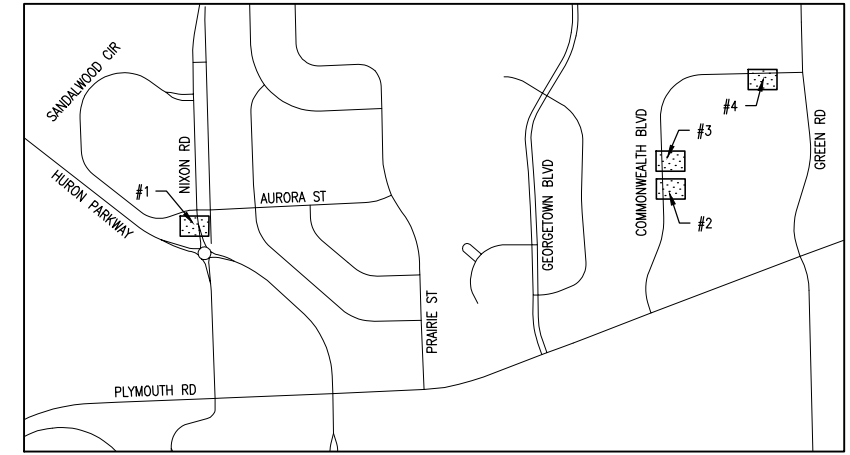
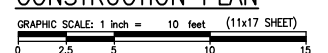


#2 - COMMONWEALTH BLVD SOUTH SIDE 2100 COMMONWEALTH BLVD PARKING

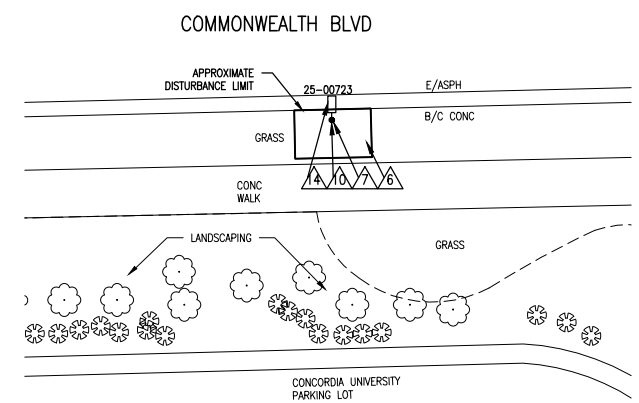


#3 - COMMONWEALTH BLVD ACROSS 2100 COMMONWEALTH BLVD PARKING

CONSTRUCTION PLAN



KEY PLAN NOT TO SCALE



#4 - COMMONWEALTH BLVD WEST OF GREEN RD INTERSECTION



Know what's below. Call before you dig.

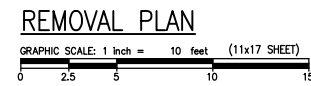
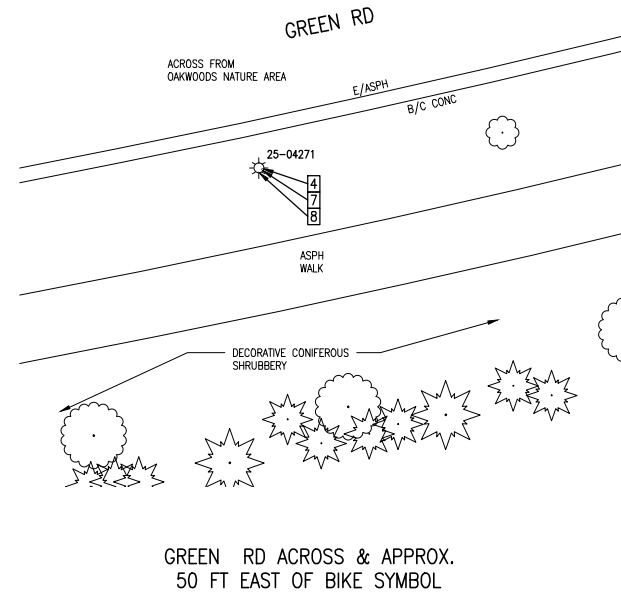
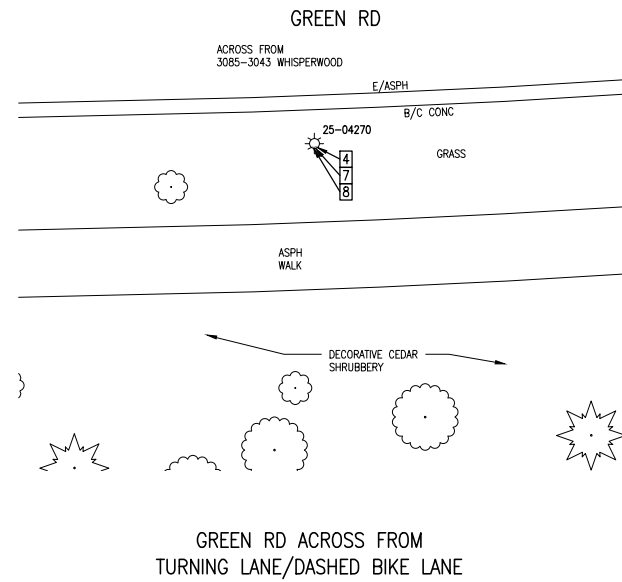
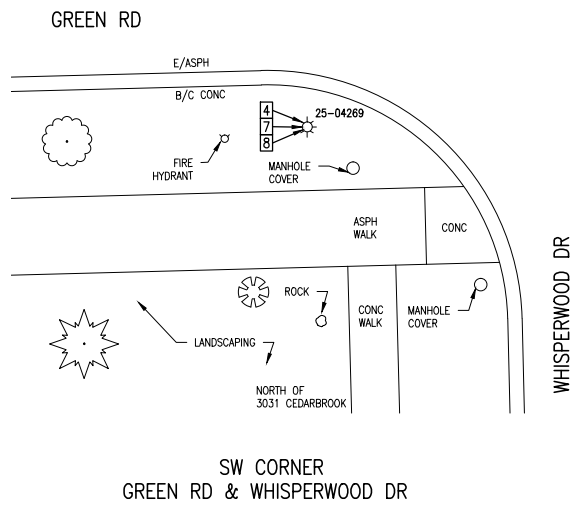
REVISIONS:
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CITY OF ANN ARBOR
ITB NO. 4557 2019 STREET LIGHT REPLACEMENT
REMOVAL & CONSTRUCTION PLAN

DRAWING PATH: P:\0000_01000028180040_44_Street_LL_Replic_EY_19_CIPDrawings\Chil\Plans_Cons\180040CON_03.dwg Date: 12/13/2018 9:42am

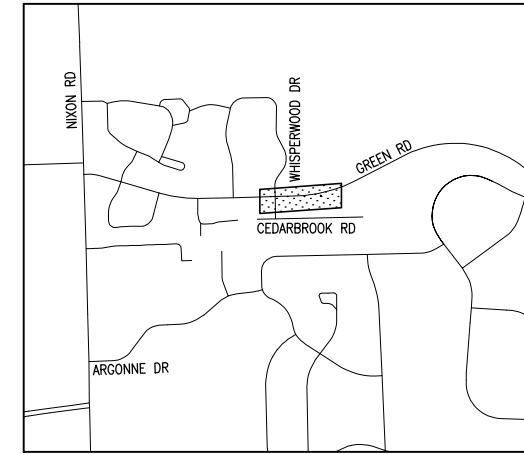
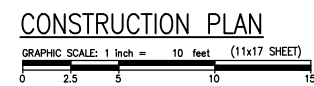
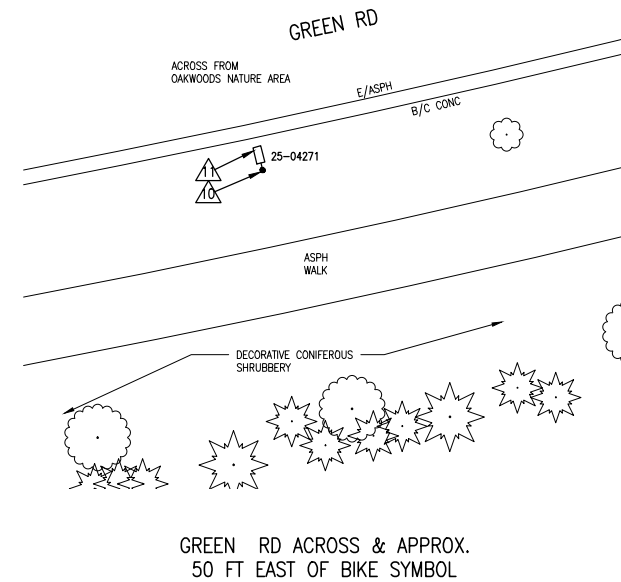
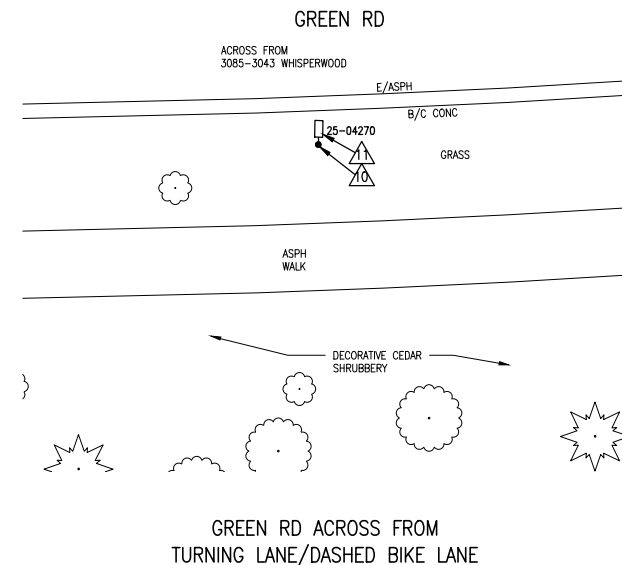
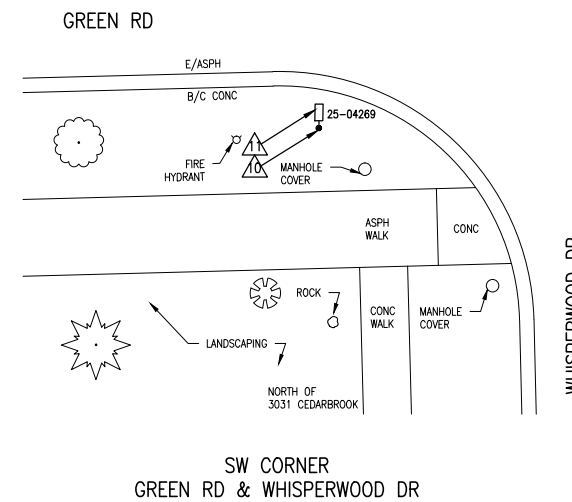
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QUANTITIES THIS SHEET

TOTAL	UNIT	DESCRIPTION
3	Ea	Light Pole, Rem
3	Ea	Light Pole, LP3
3	Ea	Fixture, Reinstall



REMOVAL KEY

- 1 CONCRETE WALK, REMOVE
- 2 BRICK PAVER WALK, REMOVE & SALVAGE
- 3 PAVEMENT, REMOVE
- 4 LIGHT POLE, REMOVE
- 5 FOUNDATION, REMOVE
- 6 FIXTURE, REMOVE
- 7 FIXTURE, REMOVE & SALVAGE
- 8 FOUNDATION, PROTECT
- 9 HANDHOLE, REMOVE
- 10 LIGHT POLE, REMOVE & SALVAGE
- 11 LIGHT POLE, PROTECT

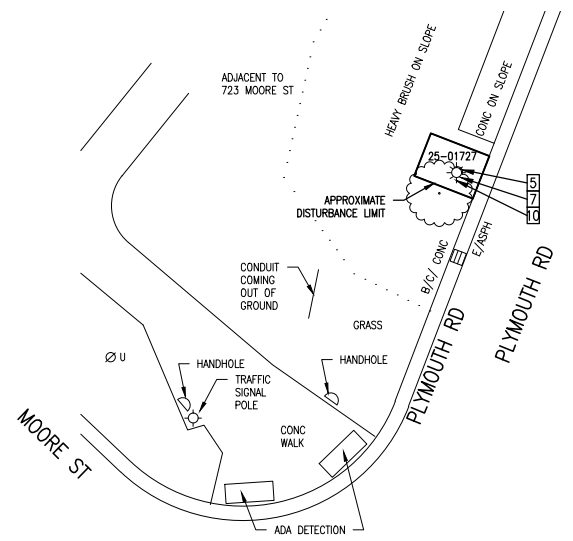
CONSTRUCTION KEY

- 1 CONCRETE WALK
- 2 BRICK PAVER WALK, REINSTALL
- 3 ADA RAMP
- 4 CONCRETE PAVEMENT
- 5 HMA PAVEMENT
- 6 TOPSOIL, SEED & MULCH
- 7 POLE FOUNDATION
- 8 LIGHT POLE, LP1
- 9 LIGHT POLE, LP2
- 10 LIGHT POLE, LP3
- 11 FIXTURE, REINSTALL
- 12 FIXTURE, SL1
- 13 FIXTURE, SL2
- 14 FIXTURE, SL3
- 15 HANDHOLE
- 16 LIGHT POLE, REINSTALL

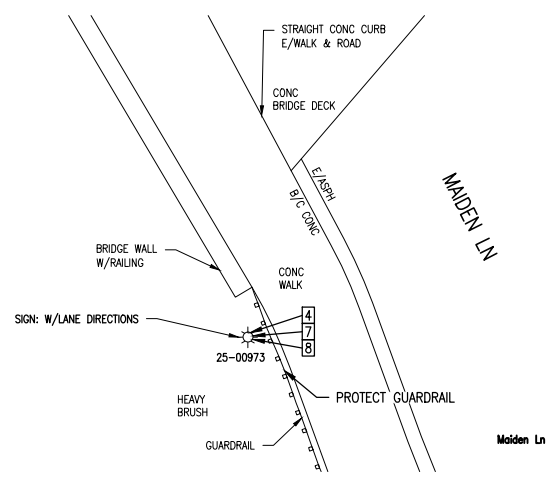


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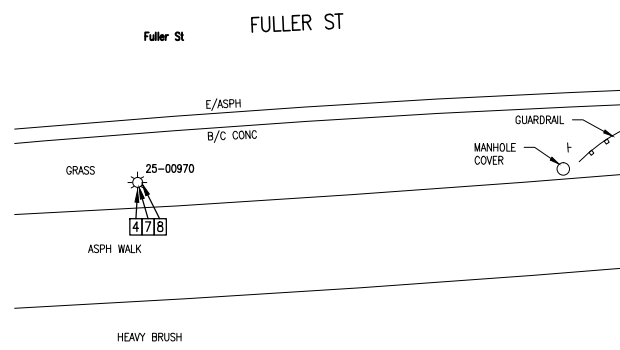
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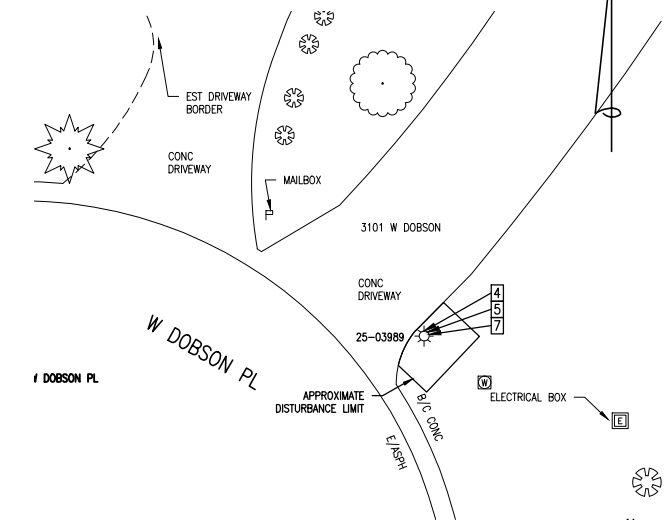
#1 - PLYMOUTH RD
 NW CORNER AT MOORE ST



#2 - SOUTHWEST SIDE OF MAIDEN LN BRIDGE
 SOUTH OF WALL



#3 - EB FULLER AT GORE WEST OF THE HURON RIVER



#4 - CUL-DE-SAC
 WEST END OF W DOBSON PL

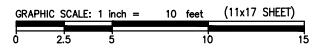
REMOVAL KEY

- 1 CONCRETE WALK, REMOVE
- 2 BRICK PAVER WALK, REMOVE & SALVAGE
- 3 PAVEMENT, REMOVE
- 4 LIGHT POLE, REMOVE
- 5 FOUNDATION, REMOVE
- 6 FIXTURE, REMOVE
- 7 FIXTURE, REMOVE & SALVAGE
- 8 FOUNDATION, PROTECT
- 9 HANDHOLE, REMOVE
- 10 LIGHT POLE, REMOVE & SALVAGE
- 11 LIGHT POLE, PROTECT

CONSTRUCTION KEY

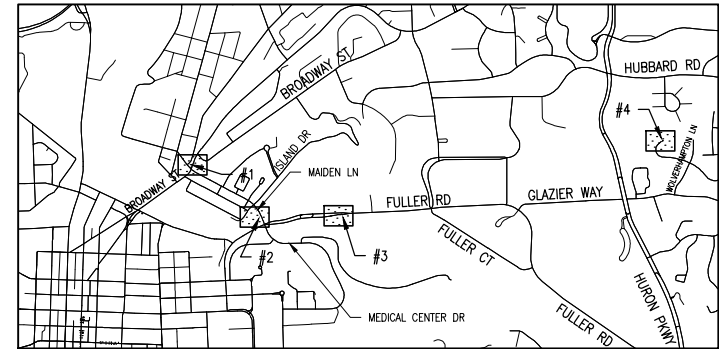
- 1 CONCRETE WALK
- 2 BRICK PAVER WALK, REINSTALL
- 3 ADA RAMP
- 4 CONCRETE PAVEMENT
- 5 HMA PAVEMENT
- 6 TOPSOIL, SEED & MULCH
- 7 POLE FOUNDATION
- 8 LIGHT POLE, LP1
- 9 LIGHT POLE, LP2
- 10 LIGHT POLE, LP3
- 11 FIXTURE, REINSTALL
- 12 FIXTURE, SL1
- 13 FIXTURE, SL2
- 14 FIXTURE, SL3
- 15 HANDHOLE
- 16 LIGHT POLE, REINSTALL

REMOVAL PLAN

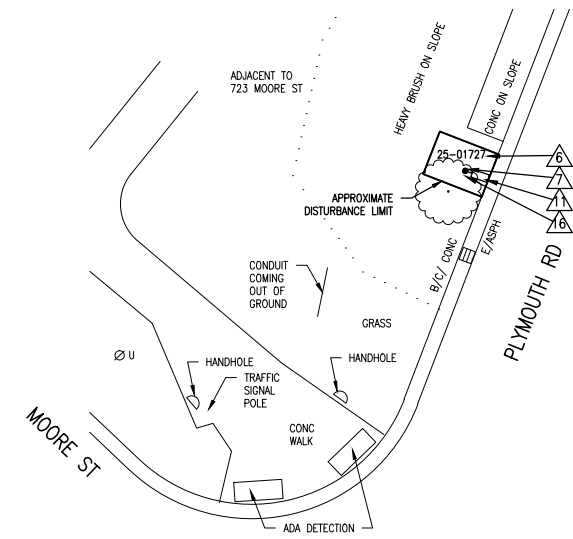


QUANTITIES THIS SHEET

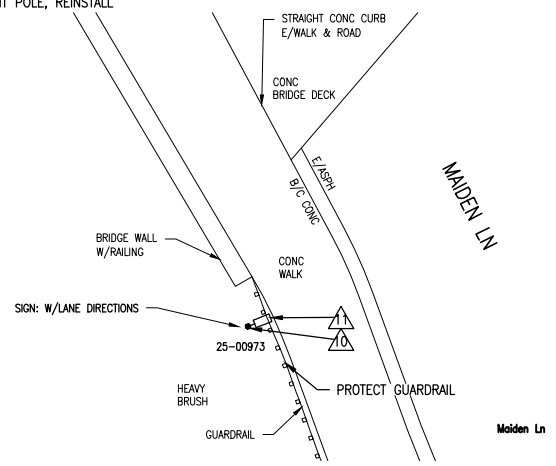
TOTAL	UNIT	DESCRIPTION
2	Ea	Foundation, Rem
3	Ea	Light Pole, Rem
1	Ea	Light Pole, Rem and Salvage
2	Ea	Foundation, Light Pole
3	Ea	Light Pole, LP3
1	Ea	Light Pole, Reinstall
4	Ea	Fixture, Reinstall



KEY PLAN
 NOT TO SCALE

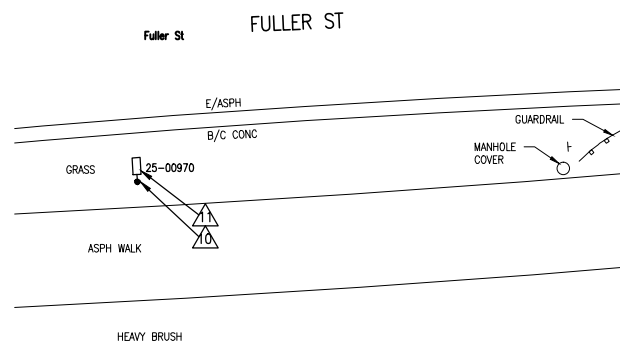
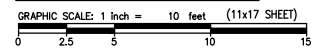


#1 - PLYMOUTH RD
 NW CORNER AT MOORE ST

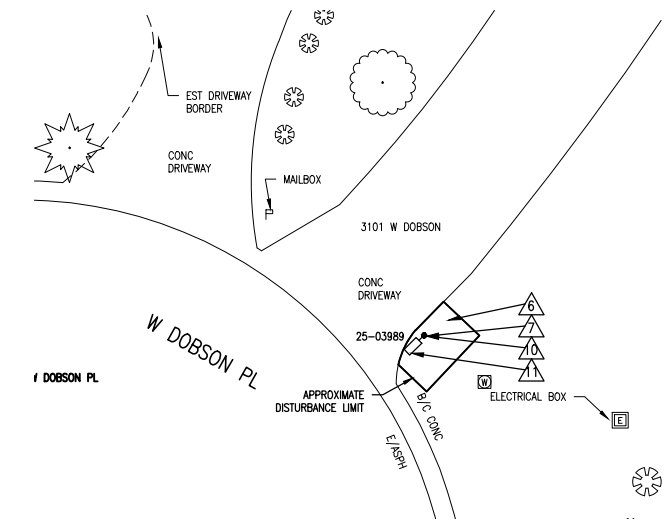


#2 - SOUTHWEST SIDE OF MAIDEN LN BRIDGE
 SOUTH OF WALL

CONSTRUCTION PLAN



#3 - EB FULLER AT GORE WEST OF THE HURON RIVER



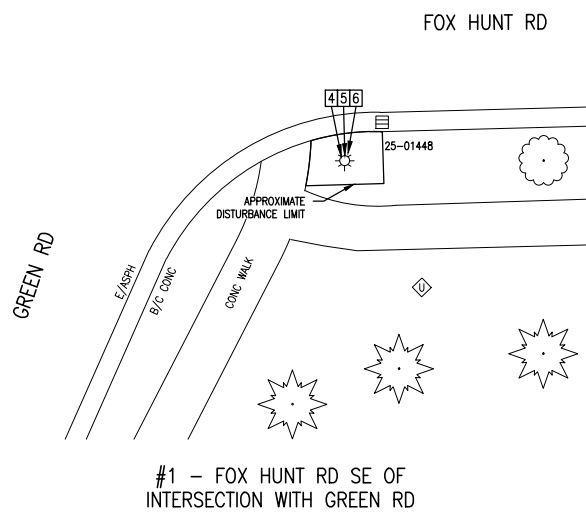
#4 - CUL-DE-SAC
 WEST END OF W DOBSON PL



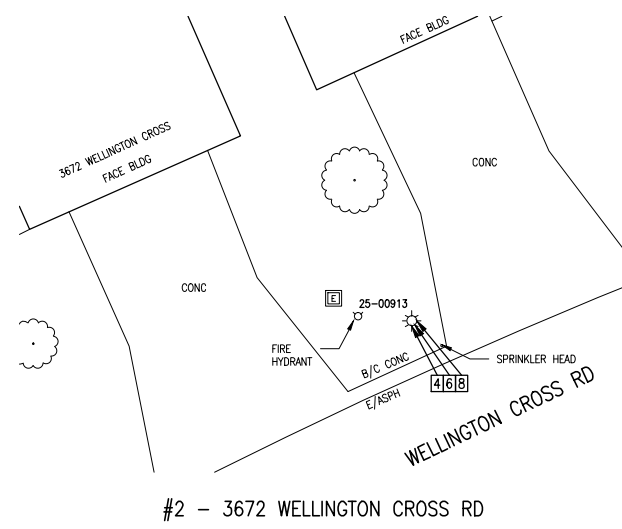
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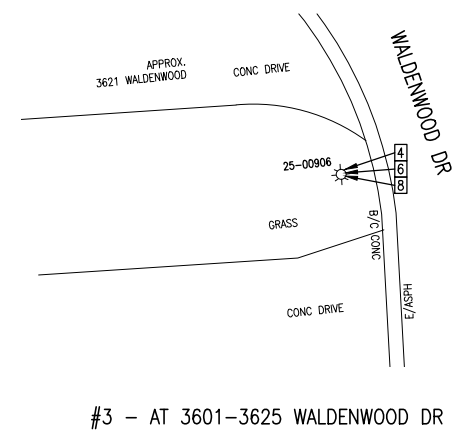
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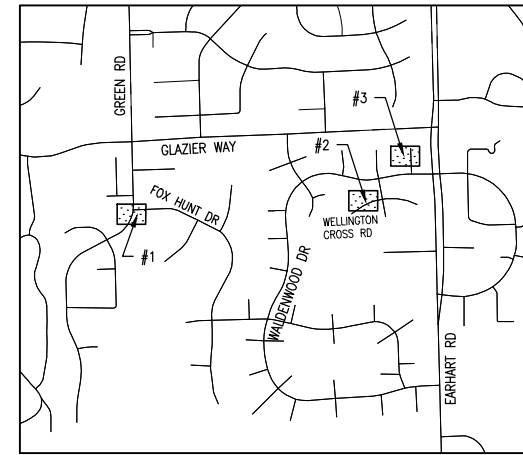
#1 - FOX HUNT RD SE OF INTERSECTION WITH GREEN RD



#2 - 3672 WELLINGTON CROSS RD



#3 - AT 3601-3625 WALDENWOOD DR



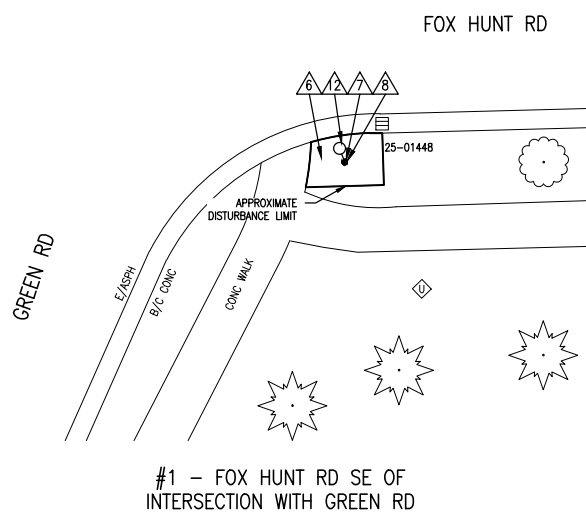
KEY PLAN
NOT TO SCALE

REMOVAL PLAN

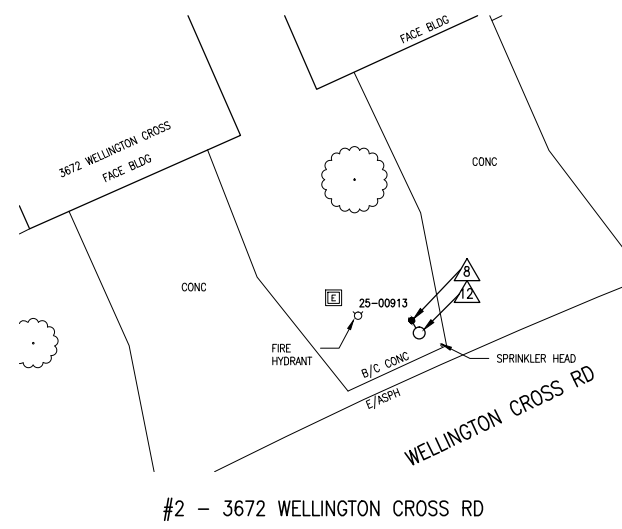
GRAPHIC SCALE: 1 inch = 10 feet (11x17 SHEET)

QUANTITIES THIS SHEET

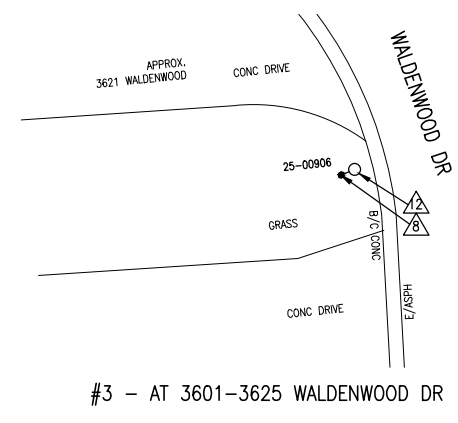
TOTAL	UNIT	DESCRIPTION
1	Ea	Foundation, Rem
3	Ea	Light Pole, Rem
1	Ea	Foundation, Light Pole
3	Ea	Light Pole, LP1
3	Ea	Fixture, SL1



#1 - FOX HUNT RD SE OF INTERSECTION WITH GREEN RD



#2 - 3672 WELLINGTON CROSS RD



#3 - AT 3601-3625 WALDENWOOD DR

CONSTRUCTION PLAN

GRAPHIC SCALE: 1 inch = 10 feet (11x17 SHEET)

REMOVAL KEY

- 1 CONCRETE WALK, REMOVE
- 2 BRICK PAVER WALK, REMOVE & SALVAGE
- 3 PAVEMENT, REMOVE
- 4 LIGHT POLE, REMOVE
- 5 FOUNDATION, REMOVE
- 6 FIXTURE, REMOVE
- 7 FIXTURE, REMOVE & SALVAGE
- 8 FOUNDATION, PROTECT
- 9 HANDHOLE, REMOVE
- 10 LIGHT POLE, REMOVE & SALVAGE
- 11 LIGHT POLE, PROTECT

CONSTRUCTION KEY

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- 12 FIXTURE, SL1
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- 16 LIGHT POLE, REINSTALL



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