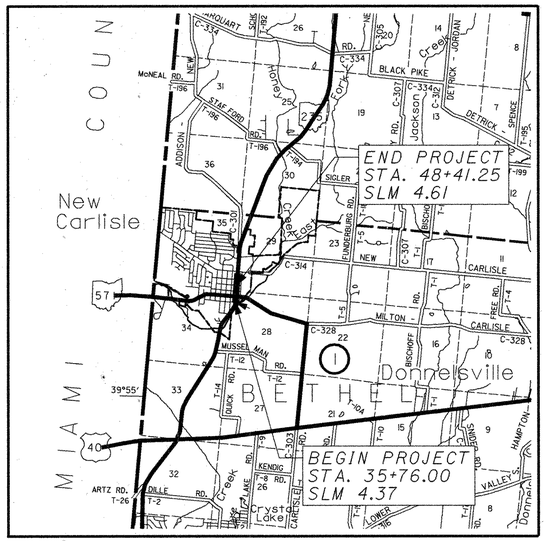
STATE OF OHIO
DEPARTMENT OF TRANSPORTATION

CLA-235-3.92

City of New Carlisle



LOCATION MAP

LATITUDE: 39°56'15" LONGITUDE: 84°01'30"

SCALE IN MILES

0 1 2 3 4

N

PORTION TO BE IMPROVED
INTERSTATE & DIVIDED HIGHWAY
UNDIVIDED STATE & FEDERAL ROUTES
OTHER ROADS

INDEX OF SHEETS:

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PROJECT DESCRIPTION

THIS PROJECT CONSISTS OF IMPROVEMENTS TO DOWNTOWN AREA OF CITY OF NEW CARLISLE INCLUDING THE ADDITION OF DECORATIVE STREET LIGHTING, SIGNAL UPGRADE AT SR235/SR571, CURB RAMP UPGRADES AND STORM SEWER REPAIR/UPGRADE.

EARTH DISTURBED AREAS

1. PROJECT EARTH DISTURBED AREA = 0
2. ESTIMATED CONTRACTOR EARTH DISTURBED AREA = N/A
3. NOTICE OF INTENT EARTH DISTURBED AREA = N/A

2002 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

FEDERAL PROJECT NO. EØ4Ø(238)

PID NO. 77056

CONSTRUCTION PROJECT NO.

RAILROAD INVOLVEMENT NONE

CLA-235-3.92

1/27

UNDERGROUND UTILITIES
TWO WORKING DAYS
BEFORE YOU DIG
CALL 1-800-362-2764 (TOLL FREE)
OHIO UTILITIES PROTECTION SERVICE
NON-MEMBERS
MUST BE CALLED DIRECTLY

PLAN PREPARED BY:

Eggeman Engineering & Consulting
5152 S. Tecumseh Road
Springfield, OH 45502

ENGINEERS SEAL:

STATE OF OHIO
KRISTIN EGGEMAN
E-64479
REGISTERED
PROFESSIONAL ENGINEER

SIGNED: Kristin A. Eggeman
DATE: 01-03-05

STANDARD CONSTRUCTION DRAWINGS								SUPPLEMENTAL SPECIFICATIONS	
DM-1.3	07-20-01	HL-10.12	04-19-02	TC-21.20	01-19-01			832	04-17-04
DM-1.4	01-21-05	HL-10.13	01-21-05	TC-41.20	01-19-01			833	02-12-03
DM-4.3	07-19-02	HL-20.11	04-19-02	TC-42.20	07-16-04			908	04-18-03
DM-4.4	07-19-02	HL-30.11	01-21-05	TC-81.10	05-01-00				
		HL-30.21	04-19-02	TC-83.10	05-01-00				
		HL-30.22	01-21-05	TC-83.20	01-16-04				
		HL-40.10	04-19-02	TC-84.20	05-01-00				
		HL-40.20	01-16-04	TC-85.10	04-19-02				
		HL-60.11	01-16-04						
		HL-60.12	01-21-05					SPECIAL PROVISIONS	
		HL-60.31	07-20-01						
		MT-97.10	04-19-02						

APPROVED _____
DATE 1/3/05 MANAGER, CITY OF NEW CARLISLE

APPROVED William L. Harrison / PRN
DATE 1-4-05 DISTRICT DEPUTY DIRECTOR

APPROVED Gordon Proctor Jr.
DATE 2-28-05 DIRECTOR, DEPARTMENT OF TRANSPORTATION

CLA - SR 235-3.92
050275 PID - 77056
Dist 7 5/11/2005

01/03/2005
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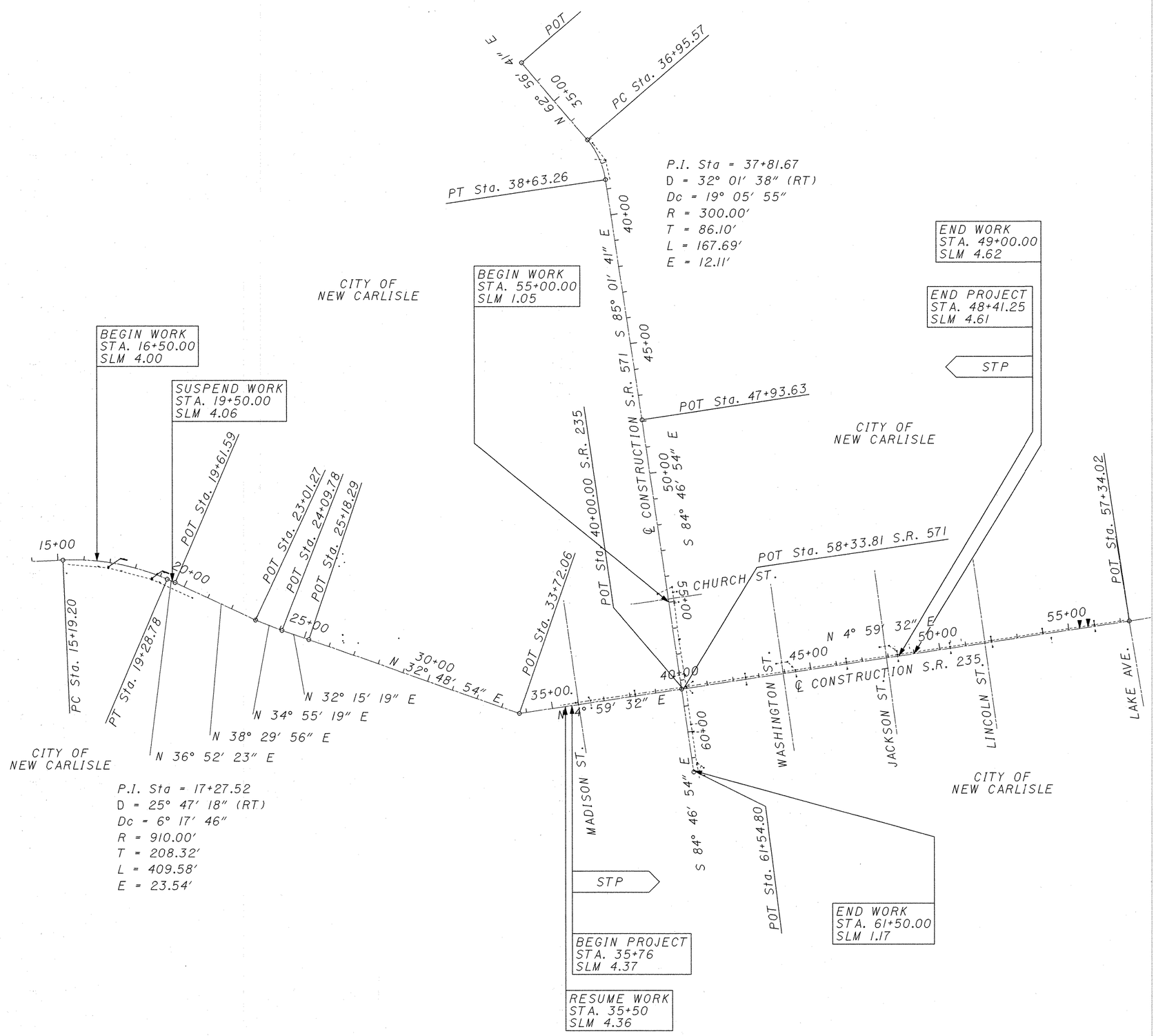

HORIZONTAL SCALE IN FEET
0 100 200 400

CALCULATED KAE
CHECKED SG

SCEMATIC PLAN

CLA-235-3.92

01/03/2005
arX17056\17056gb.dgn

UTILITIES

LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS:

ELECTRIC:

DAYTON, POWER AND LIGHT COMPANY
1900 DRYDEN ROAD
DAYTON, OHIO 45439
(937) 331-4129

GAS:

VECTREN ENERGY DELIVERY
6500 CLYO ROAD
CENTERVILLE, OHIO 45459
(937) 440-1973

WATER, SANITARY AND TRAFFIC SIGNALS:

CITY OF NEW CARLISLE
P.O. BOX 419
331 S. CHURCH STREET
NEW CARLISLE, OHIO 45344
(937) 845-1658

TELEPHONE:

SBC INCORPORATED
3233 WOODMAN DRIVE
DAYTON, OHIO 45420
(937) 296-3704

CABLE:

TIME WARNER CABLE
275 LEO STREET
DAYTON, OHIO 45404
(937) 425-8858

CONTINGENCY QUANTITIES

THE CONTRACTOR SHALL NOT ORDER MATERIALS OR PERFORM WORK FOR ITEMS DESIGNATED BY PLAN NOTE TO BE USED "AS DIRECTED BY THE ENGINEER" UNLESS AUTHORIZED BY THE ENGINEER. THE ACTUAL WORK LOCATIONS AND QUANTITIES USED FOR SUCH ITEMS SHALL BE INCORPORATED INTO THE FINAL CHANGE ORDER GOVERNING COMPLETION OF THIS PROJECT.

ELEVATION DATUM

ALL ELEVATIONS ARE BASED ON U.S.G.S. DATUM.

WORK LIMITS

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. THE INSTALLATION AND OPERATION OF ALL WORK ZONE TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS SHALL BE PROVIDED BY THE CONTRACTOR WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

CLEARING AND GRUBBING

ALL TREES AND STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE CONSTRUCTION LIMITS SHALL BE REMOVED UNDER THE LUMP SUM BID FOR ITEM 201, CLEARING AND GRUBBING. THE FOLLOWING IS AN APPROXIMATE ESTIMATE OF THE NUMBER OF TREES AND STUMPS TO BE REMOVED.

SIZES	NO. TREES	NO. STUMPS	TOTAL
18"	4		4
30"			
48"			
60"			

ITEM 202 - REMOVAL, MISC.: CONCRETE PLANTERS

THIS ITEM SHALL CONSIST OF THE REMOVAL AND DISPOSAL OF THREE (3) OCTAGONAL SHAPED CONCRETE PLANTERS AND THE UNDERGROUND ELECTRIC SERVICE ATTACHED TO EACH PLANTER, INCLUDING ANY ELECTRIC CONDUIT. THE PRIMARY SOURCE OF THE UNDERGROUND ELECTRIC SERVICE SHALL BE TERMINATED USING NATIONAL ELECTRIC CODE (NEC) STANDARDS AT THE CONSTRUCTION LIMITS OR AS DIRECTED BY THE ENGINEER. AN APPROXIMATE LOCATION OF THE UNDERGROUND ELECTRIC SERVICE HAS BEEN SHOWN ON THE PLANS. THE CONTRACTOR WILL BE REQUIRED TO FIELD LOCATE THE UNDERGROUND ELECTRIC SERVICE PRIOR TO REMOVAL. THE CONTRACTOR SHALL VERIFY WITH THE CITY OF NEW CARLISLE THAT THE POWER SERVICING THE CONCRETE PLANTERS HAS BEEN DISCONNECTED PRIOR TO ANY REMOVAL ACTIVITIES. CITY CONTACT INFORMATION:
MR. ROBERT BENDER, CITY MANAGER
P.O. BOX 419
331 S. CHURCH STREET
NEW CARLISLE, OHIO 45344 (937) 845-1658

PAYMENT WILL BE MADE AT THE LUMP SUM BID CMS ITEM 202, "REMOVAL, MISC.: CONCRETE PLANTERS" WHICH WILL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

CROSSINGS AND CONNECTIONS TO EXISTING PIPES AND UTILITIES

WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEWER OR UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED CONDUIT.

IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING CONDUIT, OR EXISTING APPURTENANCE TO BE CONNECTED, DIFFERS FROM THE PLAN ELEVATION OR RESULTS IN A CHANGE IN THE PLAN CONDUIT SLOPE, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.

IF IT IS DETERMINED THAT THE PROPOSED CONDUIT WILL INTERSECT AN EXISTING SEWER OR UNDERGROUND UTILITY IF CONSTRUCTED AS SHOWN ON THE PLAN, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WOULD BE AFFECTED BY THE INTERFERENCE WITH AN EXISTING FACILITY.

PAYMENT FOR ALL THE OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 603 CONDUIT ITEM.

RESIDENTIAL AND COMMERCIAL DRAINAGE CONNECTIONS

EXISTING ROOF DRAINS, FOOTER DRAINS, OR YARD DRAINS, DISTURBED BY THE WORK, SHALL BE PROVIDED WITH UNOBSTRUCTED OUTLETS BY CONNECTING A CONDUIT THROUGH THE CURB OR INTO A DRAINAGE STRUCTURE. THE LOCATION, TYPE, SIZE AND GRADE OF THE NEW CONDUIT REQUIRED TO REPLACE OR EXTEND THE EXISTING DRAIN WILL BE DETERMINED BY THE ENGINEER.

THE FOLLOWING CONDUIT TYPES MAY BE USED: 707.33, 707.41 NON-PERFORATED, 707.42, 707.43, 707.45, 707.46, 707.47, 707.51, 707.52 SDR35.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER FOR THE WORK NOTED ABOVE:

603, 4 " CONDUIT, TYPE E, FOR DRAINAGE CONNECTION
40 FT.

ITEM 603 - SLOTTED DRAIN: (12)", TYPE (2)

THIS ITEM SHALL CONSIST OF 12 INCH DIAMETER SLOTTED DRAIN BITUMINOUS COATED STEEL CONDUIT 707.05 (14 GAUGE) WITH 6 INCH BY 3/16 INCH GALVANIZED SOLID BAR GRATE AS APPROVED BY THE ENGINEER. ALL COST FOR LABOR AND MATERIALS, INCLUDING TYPE 2 BEDDING, AND BACKFILLING AS DETAILED ON STANDARD CONSTRUCTION DRAWING DM-1.3 SHALL BE INCLUDED IN THE PRICE BID PER FOOT FOR ITEM 603 - SLOTTED DRAIN: 12 INCH, TYPE 2 .

PAVEMENT RESTORATION FOR PIPE INSTALLATIONS

THE FOLLOWING QUANTITY HAS BEEN PROVIDED FOR PAVEMENT RESTORATION FOLLOWING INSTALLATION OF PIPES UNDER ITEM 603.

ITEM 301 ASPHALT CONCRETE BASE, PG64-22 6 CU. YDS.

THE ABOVE QUANTITY IS BASED ON A 301 THICKNESS OF 3 INCHES AND A PAVEMENT RESTORATION WIDTH THAT INCLUDES THE TRENCH WIDTH PLUS TWO FEET ON EACH SIDE OF THE TRENCH. THE TRENCH WIDTH WAS ASSUMED TO EQUAL THE SPAN TIMES 1.25 PLUS ONE FOOT.

PROVIDE ANY MATERIALS USED OUTSIDE THE LIMITS STATED ABOVE AT NO ADDITIONAL COST.

ITEM 608 - CURB RAMP, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF ODOT'S CONSTRUCTION AND MATERIAL SPECIFICATIONS, CURB RAMPS SHALL BE AS FOLLOWS:

CURB RAMPS SHALL CONFORM TO THE DETAILS GIVEN IN THE CITY OF NEW CARLISLE PLAN INSERT SHEETS, CR SERIES, INCLUDED WITHIN THE CONSTRUCTION PLANS (SEE SHEETS 6-9).

DETECTABLE WARNINGS ARE REQUIRED AND SHALL CONFORM AS FOLLOWS:

1. INSTALL DETECTABLE WARNINGS (TRUNCATED DOMES) FOR A DISTANCE OF 24" FROM THE BACK OF THE CURB FOR THE ENTIRE WIDTH OF THE RAMP OPENING.

2. PAVERS WILL MEET ASTM C 902 CLASS SX, TYPE 1, OR C 936, OR C 1272 TYPE R.

3. ACCEPTABLE MANUFACTURERS AND PRODUCTS ARE:

   A) WHITACRE-GREER FIREPROOFING COMPANY
   1400 S. MAHONING AVE., ALLIANCE OH, 44601 (800) WG PAVER
   ADA PAVER, 4"X8"X2-1/4", CLEAR RED (RUSTIC) #30.

   B) HANOVER ARCHITECTURAL PRODUCTS,
   240 BENDER RD., HANOVER, PA, 17331, (717) 637-0500
   DETECTABLE WARNING PAVER, 12"X12"X2", OR 24"X24"X2",
   RED OR QUARRY RED.

   C) ENDICOTT CLAY PRODUCTS,
   P.O. BOX 17, FAIRBURY, NE, 68352, (402) 729-5804
   HANDICAP DETECTABLE WARNING PAVER,
   4"X8"X2-1/4", RED BLEND.

4. PAVERS WILL BE LAID ON TOP OF A 6" UNREINFORCED CONCRETE BASE. SETTING BED AND JOINTS TO BE MORTARED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION, OR WITH A MAXIMUM 1/2" THICK BED OF LATEX MODIFIED CEMENT MORTAR. MORTAR JOINTS TO A WIDTH NOT GREATER THEN 5/32" AND NOT LESS THAN 1/16". PAVERS SHALL NOT BE DIRECTLY TOUCHING EACH OTHER UNLESS THEY HAVE SPACING BARS.

5. MORTARED JOINTS ARE TO BE FLUSH WITH TOP SURFACE AND STRUCK SO AS TO GIVE A SMOOTH SURFACE. PAVERS SHALL BE LAID SUCH THAT JOINTS ARE LEVEL WITH ADJOINING JOINTS SO AS TO PROVIDE A SMOOTH TRANSITION FROM BRICK TO BRICK AND BRICK TO CONCRETE SURFACE.

6. THE SURFACE OF ANY TWO ADJACENT UNITS SHOULD NOT DIFFER BY MORE THAN 1/8" IN HEIGHT. BRICKS SHALL BE PLACED IN A RUNNING BOND PATTERN. FACE OF ALL BRICK SHALL BE CLEAN OF CEMENT AND PROTECTED SO AS TO AVOID CHIPPING DURING CONSTRUCTION.

PAYMENT: ITEM 608, "CURB RAMP, AS PER PLAN", SQUARE FOOT, CONSTRUCTED IN EXISTING CURB AND WALK SHALL INCLUDE THE COST OF FURNISHING AND INSTALLING ALL MATERIALS (INCLUDING TRUNCATED DOMES), GRADING, FORMING, AND FINISHING OF THE CURB AND WALK OF THE CURB RAMP. REMOVAL OF EXISTING CURB AND WALK SHALL BE PAID FOR UNDER ITEM 202.

$DATE$
$FILE$

ITEM 608 - WALKWAY, MISC.: BRICK PAVERS

IN ADDITION TO THE REQUIREMENTS OF ODOT'S CONSTRUCTION AND MATERIAL SPECIFICATIONS, BRICK PAVERS SHALL BE AS FOLLOWS:

BRICK PAVERS SHALL BE PAVERLOCK "HALFMARK SERIES" IN MONTGOMERY BLEND OR EQUAL APPROVED BY THE ENGINEER.

PAVERS SHALL BE INSTALLED AS PER THE MANUFACTURER'S INSTRUCTION. PREFERRED STANDARD INSTALLATION SHALL INCLUDE 4" OF COARSE AGGRGATE BASE, 1" SAND LAYERING COURSE AND SAND FILLED JOINTS NOT TO EXCEED 1/8".

PAYMENT WILL BE MADE AT THE UNIT PRICE BID UNDER CMS ITEM 608, "WALKWAY, MISC.: BRICK PAVERS" WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

ITEM SPECIAL - MISC.: 3X3 TREE GRATE

IN ADDITION TO THE REQUIREMENTS OF ODOT'S CONSTRUCTION AND MATERIAL SPECIFICATIONS, TREE GRATES SHALL BE AS FOLLOWS:

TREE GRATES SHALL BE NEENAH FOUNDARY COMPANY "AVENUE COLLECTION" NUMBER R-8704-A, OR EAST JORDAN IRON WORKS "V-8950 SQUARE SERIES" NUMBER V-8953 ADA, OR EQUAL APPROVED BY THE ENGINEER.

TREE GRATES SHALL BE OF IRON AND SHALL COMPLY WITH THE AMERICANS WITH DISABILITIES ACT. GRATES ARE TO BE 3'X3' SQUARE WITH A MINIMUM 12" DIAMETER EXPANDABLE TREE OPENING.

PAYMENT WILL INCLUDE THE COST OF THE TREE GRATE, FRAME, CONCRETE ANCHORS AND CONCRETE. PAYMENT SHALL BE MADE AT THE UNIT PRICE BID UNDER CMS 690, "SPECIAL - MISC.: 3X3 TREE GRATE" FOR EACH TREE GRATE WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

ITEM SPECIAL - MISC.: 4X4 TREE GRATE

IN ADDITION TO THE REQUIREMENTS OF ODOT'S CONSTRUCTION AND MATERIAL SPECIFICATIONS, TREE GRATES SHALL BE AS FOLLOWS:

TREE GRATES SHALL BE NEENAH FOUNDARY COMPANY "AVENUE COLLECTION" NUMBER R-8710, OR EAST JORDAN IRON WORKS "V-8950 SQUARE SERIES" NUMBER V-8954 ADA, OR EQUAL APPROVED BY THE ENGINEER.

TREE GRATES SHALL BE OF IRON AND SHALL COMPLY WITH THE AMERICANS WITH DISABILITIES ACT. GRATES ARE TO BE 4'X4' SQUARE WITH A MINIMUM 12" DIAMETER EXPANDABLE TREE OPENING.

PAYMENT WILL INCLUDE THE COST OF THE TREE GRATE, FRAME, CONCRETE ANCHORS AND CONCRETE. PAYMENT SHALL BE MADE AT THE UNIT PRICE BID UNDER CMS 690, "SPECIAL - MISC.: 4X4 TREE GRATE" FOR EACH TREE GRATE WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

ENDANGERED SPECIES HABITAT

THIS PROJECT IS WITHIN THE KNOWN RANGE OF THE FEDERALLY ENDANGERED INDIANA BAT. INDIANA BAT HABITAT INCLUDES ANY LIVING OR STANDING DEAD TREE. ANY UNAVOIDABLE CUTTING OF SUCH TREES WILL BE PERFORMED ONLY BEFORE APRIL 15 OR AFTER SEPTEMBER 15 WHEN THE SPECIES WOULD NOT BE UTILIZING SUCH HABITAT.

CLEARING AND GRUBBING WILL BE KEPT AS MINIMAL AS POSSIBLE. NO CLEARING AND GRUBBING WILL BE PERMITTED OUTSIDE THE WORK LIMITS.

AIRWAY/HIGHWAY CLEARANCE FOR AIRPORTS AND HELIPORTS

ALTHOUGH THIS PROJECT HAS NOT BEEN IDENTIFIED AS BEING WITHIN THE INFLUENCE AREA OF A PRIVATE USE AIRPORT OR HELIPORT, THE FOLLOWING INFORMATION IS BEING PROVIDED:

THE CONTRACTOR IS ADVISED THAT NO TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT AT MAXIMUM OPERATING HEIGHT SHALL EXCEED A HEIGHT OF 95 Ft.. IF ANY TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT WILL EXCEED THIS HEIGHT, THE CONTRACTOR IS ADVISED THAT COORDINATION WITH THE AIRPORT OWNER WILL BE NECESSARY PRIOR TO ERECTING SUCH TEMPORARY STRUCTURES OR OPERATING SUCH EQUIPMENT ON THE PROJECT. FOR PRIVATE USE AIRPORTS OR HELIPORTS, THE CONTRACTOR WILL BE REQUIRED TO COORDINATE WITH THE AIRPORT OWNER. THE CONTRACTOR IS ADVISED THAT NO TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT SHALL EXCEED THE PERMISSIBLE HEIGHT, UNTIL COORDINATION IS MET AND DOCUMENTATION HAS BEEN FURNISHED TO THE PROJECT ENGINEER. IF COORDINATION IS NOT OBTAINED, THEN THE PROJECT ENGINEER WILL HAVE THE AUTHORITY TO PROVIDE RESTRICTIONS AS REQUIRED.

ANDY BARNHART MEMORIAL AIRPORT
FLYING ANGELS, INC.
BOX 7
NEW CARLISLE, OHIO 45344
(937) 849-9643

POWER SUPPLY FOR TRAFFIC SIGNALS

ELECTRIC POWER SHALL BE OBTAINED FROM THE DAYTON, POWER AND LIGHT COMPANY AT THE LOCATIONS INDICATED ON THE PLANS. POWER SUPPLIED SHALL BE 120/240 VOLTS.

UNDERDRAINS FOR PULL BOXES

REFERENCE IS MADE TO THE STANDARD DRAWINGS FOR DETAILS OF DRAINING PULL BOXES. UNDERDRAINS FOR PULL BOXES SHALL BE USED AS DIRECTED BY THE ENGINEER AND SHALL BE PROVIDED WHERE THE LENGTH REQUIRED FOR A SATISFACTORY OUTLET DOES NOT EXCEED APPROXIMATELY 20 FEET (6.1 METERS). AN ANIMAL GUARD SHALL BE INCLUDED AT THE OUTLET END OF THE DRAIN. AN ESTIMATED QUANTITY OF CMS ITEM 603, "4" (102 MM) CONDUIT, TYPE E" IS INCLUDED AT EACH PULL BOX FOR THIS PURPOSE.

632, REMOVAL OF TRAFFIC SIGNAL INSTALLATION

TRAFFIC SIGNAL INSTALLATIONS, INCLUDING SIGNAL HEADS, CABLE, MESSENGER WIRE, STRAIN POLES, CABINET, CONTROLLER, ETC., SHALL BE REMOVED IN ACCORDANCE WITH CMS 632.26 AND AS INDICATED ON THE PLANS. REMOVED ITEMS SHALL BE REUSED AS PART OF A NEW INSTALLATION ON THE PROJECT OR STORED ON THE PROJECT FOR SALVAGE BY CITY OF NEW CARLISLE IN ACCORDANCE WITH THE LISTING GIVEN HEREIN.

ITEMS TO BE REUSED INCLUDE THE POLE MOUNTED CONTROL CABINET.

IN THE EVENT THE ITEMS STORED ON THE PROJECT FOR SALVAGE BY THE LOCAL AGENCY ARE NOT REMOVED, THE CONTRACTOR SHALL, WHEN DIRECTED BY THE ENGINEER IN WRITING, REMOVE AND DISPOSE OF THE ITEMS AT NO ADDITIONAL COST TO THE PROJECT.

632, POWER SERVICE, AS PER PLAN

POWER SERVICE SHALL BE AS PER CMS ITEM 632 AND SCD TC-83.10 WITH THE FOLLOWING EXCEPTIONS:

1. THE METER BASE MOUNTING HEIGHT SHALL BE NO MORE THAN 5 FEET HIGH TO THE CENTER OF THE METER BASE FROM THE GROUND.

2. THE CONTRACTOR SHALL SUPPLY THE NECESSARY METER BASES.

3. ALL POWER SERVICES SHALL BE METERED. THE METER SHALL HAVE A LEVER OPERATED BYPASS.

DISCONNECT SWITCH ENCLOSURES FURNISHED IN ACCORDANCE WITH CMS ITEM 632, POWER SERVICE, AS PER PLAN, SHALL INCLUDE A PADLOCK EQUAL TO MASTER NO. 4BKA OR WILSON BOHANNON 660, WITH LOCK BODY OF BRONZE OR BRASS AND KEYING SHALL BE TO THE STATE MASTER.

THE CONTRACTOR SHALL CONTACT THE METER SECTION OF THE POWER COMPANY FOR INFORMATION REGARDING THE METER BASE INSTALLATION PRIOR TO ORDERING POLES. THE CONTRACTOR WILL BE RESPONSIBLE FOR REQUESTING AND SCHEDULING ANY INSPECTIONS THE POWER COMPANY MAY REQUIRE FOR THE POWER SERVICE HOOK UP. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTACT THE POWER COMPANY FOR THE ELECTRICAL SERVICE CONNECTION. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR SPLICE POWER CABLE INTO THE POWER COMPANY'S CIRCUITS. THE VOLTAGE SUPPLIED SHALL BE NOMINALLY 120 VOLTS. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ANY NECESSARY PERMITS AND THE PAYING OF ALL FEES. THE CONTRACTOR SHALL PAY ALL POWER CHARGES UNTIL THE SIGNAL IS ACCEPTED BY THE MAINTAINING AGENCY.

GUARANTEE

THE CONTRACTOR SHALL GUARANTEE THAT THE TRAFFIC CONTROL SYSTEM INSTALLED AS PART OF THIS CONTRACT SHALL OPERATE SATISFACTORILY FOR A PERIOD OF 90 DAYS FOLLOWING COMPLETION OF THE 10-DAY PERFORMANCE TEST. IN THE EVENT OF UNSATISFACTORILY OPERATION THE CONTRACTOR SHALL CORRECT FAULTY INSTALLATIONS, MAKE REPAIRS AND REPLACE DEFECTIVE PARTS WITH NEW PARTS OF EQUAL OR BETTER QUALITY. EQUIPMENT, MATERIAL AND LABOR COSTS INCURRED IN CORRECTING AN UNSATISFACTORILY OPERATION SHALL BE BORNE BY THE CONTRACTOR.

THE GUARANTEE SHALL COVER THE FOLLOWING ITEMS OF THE TRAFFIC CONTROL SYSTEM: CONTROLLERS AND ASSOCIATED EQUIPMENT, DETECTOR UNITS, INTERCONNECT ITEMS AND MASTER CONTROL EQUIPMENT.

CUSTOMARY MANUFACTURER'S GUARANTEES FOR THE FOREGOING ITEMS SHALL BE TURNED OVER TO THE STATE OR THE MAINTAINING AGENCY FOLLOWING ACCEPTANCE OF THE EQUIPMENT.

THE COST OF GUARANTEEING THE TRAFFIC CONTROL SYSTEM WILL BE INCIDENTAL TO AND INCLUDED IN THE CONTRACT UNIT PRICE OF THE VARIOUS ITEMS MAKING UP THE SYSTEM.

ITEM 614, MAINTAINING TRAFFIC

TRAFFIC SHALL BE MAINTAINED THROUGH THE PROJECT SITE AT ALL TIMES, EXCEPT FOR:

1. SHORT-DURATION INTERRUPTIONS WHEN SPANWIRE, LIGHT POLES OR LUMINAIRES ARE BEING INSTALLED OR REMOVED AND WHEN CULVERTS AND TRENCH DRAINS ARE BEING INSTALLED (SEE SUBSECTION A BELOW).
2. SHORT AND/OR LONG-DURATION INTERRUPTIONS WHEN IT BECOMES NECESSARY TO INTERRUPT THE OPERATION OF THE EXISTING SIGNAL (SEE SUBSECTION F BELOW).

ALL LANES OF SR 235 AND SR 571 SHALL REMAIN OPEN TO TRAFFIC BETWEEN THE HOURS OF 6:30 AM TO 9:30 AM AND 3:00 PM TO 6:00 PM MONDAY THROUGH FRIDAY AND 6:00 AM TO 10:00 PM SATURDAY AND SUNDAY -- SUBJECT TO LIQUIDATION DAMAGES IN THE AMOUNT OF $200.00 PER 15 MINUTE PERIOD THE LANE(S) REMAIN CLOSED TO TRAFFIC BEYOND THE TIME SPECIFIED.

FOR PURPOSES OF THIS PROJECT, SHORT-DURATION IS DEFINED AS A DURATION LASTING LESS THAN 15 MINUTES. LONG-DURATION IS DEFINED AS A DURATION LASTING GREATER THAN 15 MINUTES.

A) SPAN-WIRE, LIGHT POLE/LUMINAIRE INSTALLATION/REMOVAL AND CULVERT/TRENCH DRAIN INSTALLATION

TRAFFIC THROUGH THE SITE MAY BE STOPPED FOR SHORT DURATIONS WHEN SPAN-WIRE, LIGHT POLES OR LUMINAIRES ARE BEING INSTALLED OR REMOVED FROM ABOVE ROADWAYS, WHEN CULVERT IS INSTALLED ON SR 235 AND WHEN TRENCH DRAINS ARE INSTALLED ON HILLCREST ST. AND TAL SHROYER DRIVE. SUCH CLOSURES SHALL TAKE PLACE BETWEEN THE HOURS OF 9:30 AM TO 11:00 AM, 1:00 PM TO 3:00 PM, AND 10:00 PM TO 6:00 AM, WEEKDAYS -- SUBJECT TO LIQUIDATED DAMAGES IN THE AMOUNT OF $200.00 PER 15 MINUTE PERIOD THE LANE(S) REMAIN CLOSED TO TRAFFIC BEYOND THE PERIOD SPECIFIED. THE LENGTH OF ANY ONE CLOSURE MAY NOT EXCEED 15 MINUTES AND A SECOND CLOSING MAY NOT BE MADE UNTIL THE BACKUPS OF VEHICLES FROM A PREVIOUS CLOSURE HAVE BEEN CLEARED. IF ANY BACKUP EXTENDS TO A POINT WHERE THE QUEUED VEHICLES CREATE A SIGHT DISTANCE OBSTRUCTION FOR INTERSECTING STREET TRAFFIC, WORK SHALL BE HALTED AND THE ROADWAY SHALL BE REOPENED TO TRAFFIC. ODOT'S ENGINEER OR PROJECT REPRESENTATIVE HAS THE AUTHORITY TO STOP WORK AND REOPEN THE ROAD WHENEVER, IN HIS/HER OPINION, SAFETY REQUIRES IT.

WHENEVER THE ROAD IS CLOSED, ROAD WORK AHEAD, PREPARE TO STOP AND FLAGGER AHEAD SIGNS SHALL BE EMPLOYED IN ADVANCE OF THE WORK SITE. THE PLACEMENT OF SIGNS SHALL CONFORM TO ALL PROVISIONS OF THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (OMUTCD). FLAGGERS SHALL FOLLOW THE PROCEDURES DESCRIBED BY STANDARD DRAWING MT-97.10.

B) LOCAL ACCESS TO HILLCREST ST. AND TAL SHROYER DR.

RESIDENTS OF HILLCREST ST. AND TAL SHROYER DR. AND LOCAL EMERGENCY SERVICES SHALL HAVE ACCESS TO HILLCREST ST. AND TAL SHROYER DR. FOR THE DURATION OF THE PROJECT. IF A CLOSURE IS REQUIRED, SUCH CLOSURE WILL BE OF SHORT DURATION AND WILL ADHERE TO THE HOURS SPECIFIED IN SUBSECTION A ABOVE.

C) TWO-WAY TRAFFIC

TWO-WAY TRAFFIC SHALL BE MAINTAINED THROUGH THE PROJECT SITE AT ALL TIMES. WHENEVER WORK REDUCES THE AVAILABLE PAVEMENT TO LESS THAN TWO 10' LANES, THE CONTRACTOR SHALL MAINTAIN TWO-WAY TRAFFIC THROUGH THE USE OF FLAGGERS IN ACCORDANCE WITH MT-97.10.

D) SOME WORK WILL BE PERFORMED ALONGSIDE THE ROADWAY. SIGNING AND CONE PLACEMENT FOR SUCH WORK SHALL FOLLOW ODOT STANDARD DRAWINGS SHOWN IN PART 6 OF THE CURRENT EDITION OF THE OMUTCD.

E) CONES, DRUMS AND BARRICADES USED TO CHANNELIZE TRAFFIC AROUND WORK SITES SHALL CONFORM TO ALL PROVISIONS OF THE OMUTCD AND SHALL BE PLACED SO THE INTENDED TRAVEL PATHS ARE CLEARLY INDICATED.

F) INTERRUPTION OF THE OPERATION OF THE EXISTING TRAFFIC SIGNAL

WHENEVER IT BECOMES NECESSARY FOR THE CONTRACTOR TO INTERRUPT THE OPERATION OF THE EXISTING SIGNAL, THE CONTRACTOR SHALL PROVIDE A FLAGGER TO SAFELY DIRECT TRAFFIC THROUGH THE AREA. IF THE INTERRUPTION IS OF LONG-DURATION, THE CONTRACTOR SHALL UTILIZE A LAW ENFORCEMENT OFFICER (LEO) TO SAFELY DIRECT TRAFFIC THROUGH THE AREA. SEE NOTE ON THIS SHEET FOR "ITEM 614 - LAW ENFORCEMENT OFFICER WITH PATROL CAR" FOR ADDITIONAL INFORMATION. THE CONTRACTOR SHALL COORDINATE WITH THE CITY OF NEW CARLISLE AND THE CLARK COUNTY SHERIFF'S OFFICE ON THIS MATTER.

GENERAL REQUIREMENTS

1. IF THE CONTRACTOR SO ELECTS, HE MAY SUBMIT ALTERNATE METHODS FOR THE MAINTENANCE OF TRAFFIC, PROVIDED THE INTENT AND PROVISIONS HEREIN ARE FOLLOWED, AND NO ADDITIONAL INCONVENIENCE TO THE TRAVELING PUBLIC RESULTS THEREFROM. NO ALTERNATE PLAN SHALL BE PLACED INTO EFFECT UNTIL APPROVAL HAS BEEN GRANTED IN WRITING BY THE DIRECTOR.
2. THE PROJECT SHALL BE CONTRUCTED USING STANDARD DRAWINGS.
3. ACCESS TO ABUTTING PROPERTY OWNERS MUST BE MAINTAINED AT ALL TIMES. WHERE PROPERTIES ARE ACCESSED BY TWO OR MORE DRIVEWAYS, ONE DRIVEWAY MAY BE CLOSED DURING CONSTRUCTION.
4. TRAFFIC PATTERN CHANGES, TEMPORARY LANE CLOSURES (FOR CONSTRUCTION OPERATIONS NOT SPECIFICALLY COVERED IN THE PLAN), AND CONSTRUCTION OPERATIONS WHICH REQUIRE ONE-LANE, TWO-WAY OPERATIONS WILL NOT BE PERMITTED DURING RESTRICTED HOURS -- DEFINED AS 6:30 AM TO 9:30 AM AND 3:00 PM TO 6:00 PM MONDAY THROUGH FRIDAY.
5. LENGTH AND DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE AT THE APPROVAL OF THE ENGINEER. IT IS THE INTENT TO MINIMIZE THE IMPACT TO THE TRAVELING PUBLIC. LANE CLOSURES OR RESTRICTIONS OVER SEGMENTS OF THE PROJECT IN WHICH NO WORK IS ANTICIPATED WITHIN A REASONABLE TIME FRAME, AS DETERMINED BY THE ENGINEER, SHALL NOT BE PERMITTED. THE LEVEL OF UTILIZATION OF MAINTENANCE OF TRAFFIC DEVICES SHALL BE COMMENSURATE WITH THE WORK IN PROGRESS.
6. ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING, MAINTAINING, AND SUBSEQUENT REMOVAL OF ALL WORK ZONE ROADS AND PAVEMENT, SIGNS, BARRICADES, BARRIERS, AND LIGHTS USED FOR THE PURPOSE OF MAINTAINING TRAFFIC. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.
8. THE CONTRACTOR SHALL TAKE PRECAUTIONS TO SEPARATE PEDESTRIANS FROM CONSTRUCTION HAZARDS (E.G., OPEN TRENCHES) THROUGH THE USE OF FENCING, BARRICADES AND FLASHING YELLOW LIGHTS. THE PROVISIONS TO PROTECT PEDESTRIANS SHALL BE AT THE APPROVAL OF THE ENGINEER.
9. PAYMENT FOR THE ABOVE, UNLESS SEPARATELY ITEMIZED, SHALL BE INCLUDED IN THE LUMP SUM BID PRICE FOR ITEM 614, MAINTAINING TRAFFIC.

ITEM 614 - LAW ENFORCEMENT OFFICER (WITH PATROL CAR)

IN ADDITION TO THE REQUIREMENTS OF CMS 614 AND THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (OMUTCD), A UNIFORMED LAW ENFORCEMENT OFFICER (AND OFFICIAL PATROL CAR WITH WORKING TOP-MOUNTED EMERGENCY FLASHING LIGHTS) SHALL BE PROVIDED FOR CONTROLLING TRAFFIC FOR THE FOLLOWING TASKS:

DURING A TRAFFIC SIGNAL INSTALLATION.

DURING WORK IN INTERSECTIONS.

LAW ENFORCEMENT OFFICERS (LEOS) SHOULD NOT BE USED WHERE THE OMUTCD INTENDS THAT FLAGGERS BE USED. THE LEOS ARE CONSIDERED TO BE EMPLOYED BY THE CONTRACTOR AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR ACTIONS. ALTHOUGH THEY ARE EMPLOYED BY THE CONTRACTOR, THE ENGINEER SHALL HAVE CONTROL OVER THEIR PLACEMENT. THE OFFICIAL PATROL CAR SHALL BE A PUBLIC SAFETY VEHICLE AS REQUIRED BY THE OHIO REVISED CODE. THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR THESE SERVICES WITH: (LIST LAW ENFORCEMENT AGENCY, ADDRESS AND TELEPHONE NUMBER).

LAW ENFORCEMENT OFFICERS (WITH PATROL CAR) REQUIRED BY THE TRAFFIC MAINTENANCE TASKS ABOVE SHALL BE PAID FOR ON A UNIT PRICE (HOURLY) BASIS UNDER ITEM 614, LAW ENFORCEMENT OFFICER (WITH PATROL CAR). THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR	50 HOURS

THE HOURS PAID SHALL INCLUDE MINIMUM SHOW-UP TIME REQUIRED BY THE LAW ENFORCEMENT AGENCY INVOLVED.

IF CONTRACTORS WISH TO UTILIZE LEOS FOR FLAGGING AND TRAFFIC CONTROL OTHER THAN FOR THAT REQUIRED IN THESE PLANS, THEY MAY DO SO AT THEIR OWN EXPENSE. PAYMENT FOR THE EXCESS ABOVE THE CONTRACT REQUIREMENTS WILL BE INCLUDED UNDER ITEM 614, MAINTAINING TRAFFIC.

CALCULATED KAE CHECKED DME

MAINTENANCE OF TRAFFIC

CLA-235-3.92

$DATE$
$FILE$

GENERAL NOTES FOR SIDEWALKS, CURB RAMPS, AND DRIVEWAYS

CALCULATED KAE CHECKED DME

GENERAL

1. ALL AREAS, ELEMENTS, AND FACILITIES FOR PEDESTRIAN ACCESS, CIRCULATION AND USE THAT ARE CONSTRUCTED, INSTALLED OR ALTERED IN THE PUBLIC RIGHT-OF-WAY AND WHICH ARE SUBJECT TO TITLE II OF THE AMERICANS WITH DISABILITIES ACT (ADA) SHALL COMPLY WITH ALL CURRENT FEDERAL REGULATIONS INCLUDING THE ADA ACCESSIBILITY GUIDELINES (ADAAG).
2. NEWLY CONSTRUCTED AND ALTERED STREETS OR PEDESTRIAN WALKWAYS MUST CONTAIN CURB RAMPS AT INTERSECTIONS. (28 CFR 35.151(d)) ALTERATIONS INCLUDE RESURFACING AND ANY WORK THAT IMPACTS THE MAJORITY OF THE STREET OR WALKWAY. THE ENTIRE INTERSECTION EFFECTED MUST BE BROUGHT INTO COMPLIANCE.
3. ALL MATERIALS SHALL CONFORM TO THE "CONSTRUCTION AND MATERIAL SPECIFICATIONS" OF THE OHIO DEPARTMENT OF TRANSPORTATION, LATEST EDITION.
4. ALL SLOPES REFERRED TO ARE REFERENCED TO A HORIZONTAL PLANE.
5. FOR SIDEWALKS, CURB RAMPS, AND DRIVEWAYS THE "PREFERRED" DIMENSION SHALL BE THE NORMAL STANDARD TO BE MET, UNLESS EXISTING ROW WIDTH OR FEATURES MAKE COMPLIANCE INFEASABLE. IN THIS CASE THE "MINIMUM" STANDARD MUST BE MET.

PUBLIC SIDEWALKS

1. PREFERRED CLEAR WIDTH OF A CONTINUOUS PASSAGE SHALL BE 48 INCHES; FOR ALTERATIONS TO EXISTING ROWS, WHERE THE PREFERRED CLEAR WIDTH CANNOT BE MET, THE MINIMUM CLEAR WIDTH OF A CONTINUOUS PASSAGE SHALL BE 36 INCHES.
2. SIDEWALK CROSS SLOPE SHALL NOT EXCEED 48:1 (2%).

CURB RAMPS

1. A TYPICAL CURB RAMP IS COMPOSED OF THE FOLLOWING ELEMENTS: RAMP, LANDING, SIDES, SURFACE, AND INTERSECTION WITH THE ROADWAY.
2. RAMP. THE CURB RAMP MUST HAVE A SLOPE OF NO GREATER THAN 12:1 IN THE DIRECTION OF TRAVEL AND A CROSS SLOPE OF NO MORE THAN 48:1. THE MINIMUM WIDTH FOR A RAMP IS 48-INCHES (NOT INCLUDING SIDES).
3. THE LANDING IS THE LEVEL AREA AT THE TOP OF A RAMP AND MUST NOT HAVE A SLOPE MORE THAN 48:1 IN ANY DIRECTION. THE LANDING AREA IS USED FOR TURNING AND MUST MAINTAIN A PREFERRED LENGTH AND WIDTH OF 60"x60" FOR ALTERATIONS IN EXISTING ROWS WHERE PREFERRED CLEAR WIDTH CANNOT BE MET, THE MINIMUM LENGTH AND WIDTH SHALL BE 48"x48". IN ALL CASES, THE TYPE 2 CURB RAMP (PARALLEL) MUST HAVE A LANDING LENGTH OF 60-INCHES.
4. SIDES. THE CURB RAMP SHALL BE FLARED WHEN PEDESTRIANS ARE TO CROSS THE RAMP, OR HAVE CURBING IF THE ADJACENT AREA IS A NON-PEDESTRIAN SURFACE SUCH AS A LAWN STRIP, BRICKWORK, OR OBSTACLE. MAXIMUM FLARE SLOPES ARE 12:1 OR AS DIRECTED BY THE ENGINEER. DIAGONAL CURB RAMPS MUST HAVE WELL DEFINED EDGES THAT ARE TO BE PARALLEL TO THE DIRECTION OF PEDESTRIAN FLOW. A DIAGONAL CURB RAMP MUST ALSO HAVE A MINIMUM 24-INCH SEGMENT OF FULL HEIGHT CURB ON EACH SIDE OF THE RAMP WHICH IS WITHIN THE CROSSWALK LINES OR PEDESTRIAN RIGHT-OF-WAY.
5. FLARE TREATMENTS. VARIOUS FLARE TREATMENT ARE SHOWN IN THE DRAWINGS. IN GENERAL A 12:1 FLARE INCLUDING CONCRETE TO EXTENDED SIDEWALK LINE IS PREFERRED OVER SHORT ROLLED CURBING WHERE POSSIBLE. THIS PROVIDES A CONCRETE WALKING SURFACE THE ENTIRE SIDEWALK WIDTH IN THE DIRECTION OF TRAVEL. ROLLED CURBING ON DIAGONAL CURB RAMPS IS INTENDED TO ACCOMMODATE OBSTACLES OTHER THAN GRASS OR BRICK STRIPS.
6. SURFACE. THE CURB RAMP SURFACE MUST BE STABLE, FIRM, AND SLIP-RESISTANT. CHANGE IN LEVEL UP TO 0.25-INCH MAY BE VERTICAL WITHOUT EDGE TREATMENT. CHANGES BETWEEN 0.25 AND 0.5-INCHES MUST BE BEVELED WITH A SLOPE OF NO GREATER THAN 12:1. CHANGES IN LEVEL ABOVE 0.5-INCH MUST BE ACCOMPLISHED BY A RAMP. THE FINAL SURFACE TEXTURE SHALL BE ROUGHER THAN THE ADJACENT WALK AND SHALL BE OBTAINED BY COARSE BROOMING OR OTHER METHODS APPROVED BY THE ENGINEER TO OBTAIN STRIATIONS TRANSVERSE TO THE RAMP SLOPE. BROOM FINISH TOOLED JOINTS WITHOUT FILLING-IN THE JOINT.
7. LIP. THE INTERSECTION OF THE RAMP WITH THE ROADWAY SHALL BE PERPENDICULAR AND EDGES SHALL BE FLUSH. THE COUNTER SLOPE FROM THE END OF RAMP UP THE CROSS SLOPE OF THE ROADWAY SHALL BE NO MORE THAN 20:1 FOR THE FIRST 24-INCHES.
8. NO OBSTACLES OR PROTRUSIONS SHALL BE PLACED WITHIN THE CURB RAMP AREA. EXISTING MANHOLE COVERS, VALVE BOXES SHALL BE FLUSH MOUNTED WITH WALKING SURFACE.
9. THE THICKNESS OF ALL NEW CURB RAMPS SHALL BE 6-INCHES.
10. TRANSITIONAL SECTIONS OF SIDEWALK SHALL BE INSTALLED TO CONNECT NEW OR REPLACED CURB RAMPS WITH EXISTING SIDEWALKS, THAT DO NOT MEET CURRENT STANDARDS AND SPECIFICATIONS. THESE TRANSITION SEGMENTS OF SIDEWALK SHALL PROVIDE A SMOOTH TRANSITION BETWEEN EXISTING AND NEW CONCRETE. MAXIMUM WARPING (ROTATION) RATE SHALL BE 1/8" VERTICAL CHANGE PER L.F. HORIZONTAL DISTANCE TRAVELLED AND MINIMUM DISTANCE SHALL BE ONE FULL SIDEWALK BLOCK.
11. FOR PARALLEL AND COMBINATION RAMPS WHERE A RAMP IS LOCATED WITHIN THE PUBLIC SIDEWALK, THE MINIMUM LENGTH FOR THE RAMPS SHALL BE ONE SIDEWALK BLOCK LENGTH; AND THE MAXIMUM LENGTH SHALL BE WHAT IS REQUIRED TO MAINTAIN A 12:1 SLOPE TO MEET EXISTING SIDEWALK GRADE. WHEN THIS IS DETERMINED UNFEASIBLE DUE TO STEEP PITCH OF EXISTING ROADWAY, IN NO CASE SHALL THE RAMP BE LESS THAN 15 FEET.
12. STEEP SLOPES. ALL RAMPS LOCATED ON STREETS WITH A RUNNING PROFILE GRADE GREATER THAN 5% MUST BE REVIEWED AND APPROVED BY THE ENGINEER.
13. SLOPE AND CROSS-SLOPE CONVERSION TABLE:

RATIO	PERCENT	INCH/FOOT	DEGREES	WHERE UTILIZED
1:12	8.3	1	4.8	MAXIMUM SLOPE FOR RAMPS AND FLARES
1:20	5.0	5/8	2.9	AT THE FOOT OF THE CURB RAMP, THE TRANSITION FROM THE RAMP TO THE GUTTER COUNTER SLOPE SHALL BE NO MORE THAN 1:20 FOR A MINIMUM DISTANCE OF 24-INCHES
1:48	2.0	1/4	1.1	MAXIMUM SLOPE FOR LANDING AND CROSS-SLOPE OF LANDINGS, RAMPS AND SIDEWALK

14. FOR CURB RAMP STANDARD DRAWINGS TYPICAL DIMENSIONS ARE USED BASED ON A FULL CURB HEIGHT OF 6-INCHES. ADJUSTMENTS MAY BE MADE TO LENGTH OF RAMPS AND FLARES BASED ON ACTUAL CURB REVEAL HEIGHT. REQUIRED SLOPES MUST BE MAINTAINED.
15. WHEN TWO RAMPS ARE USED AT A CORNER IF THE SPACE BETWEEN IS TO BE AN UNWALKABLE SURFACE IT MAY BE GRASSED IF GREATER THAN 20 S.F., OTHERWISE IT SHALL BE FILLED IN WITH BRICK PAVERS.
16. TYPES 2 & 3 RAMPS. WHEN BACK CURB HEIGHT IS 4" OR GREATER INSTALL SEPARATE 6"x18" CURB AT THE BACK OF WALK. IF LESS THAN 4" UTILIZE ROLLED INTEGRAL CURB. ROLLED CURB PAID AS 6" WALK.
17. DETECTABLE WARNING IS REQUIRED FOR ALL CURB RAMPS. FOR SPECIFIC DETAILS, SEE "ITEM 608 - CURB RAMP, AS PER PLAN" ON SHEET 3.
18. DOME ALIGNMENT. DOMES SHALL BE ALIGNED ON A SQUARE GRID IN THE PREDOMINANT DIRECTION OF TRAVEL TO PERMIT WHEELS TO ROLL BETWEEN DOMES.
19. DRAINAGE. ALL CURB RAMPS SHALL BE DESIGNED AND CONSTRUCTED TO PROVIDE POSITIVE DRAINAGE SO AS TO PREVENT PONDING. PARTICULAR ATTENTION IS TO BE GIVEN TO RAMPS LOCATED IN EITHER FLAT OR STEEP AREAS, AND CURB RAMP TYPES 2 & 4 THAT HAVE LANDINGS AT STREET LEVEL.

DRIVEWAYS

1. DRIVEWAY LOCATIONS ARE GOVERNED BY CITY OF NEW CARLISLE ORDINANCES.
2. THE SIDEWALK WIDTH AT TOP OF DRIVE SHALL BE PREFERRED WIDTH OF 48-INCHES; FOR ALTERATIONS TO EXISTING ROWS WHERE THE PREFERRED WIDTH CANNOT BE MET, THE MINIMUM WIDTH SHALL BE 36-INCHES.
3. LIP AT BOTTOM OF APRON SHALL BE 1-INCH TYPICAL.

DO NOT SCALE - USE DIMENSIONS ONLY

CITY OF NEW CARLISLE

PLAN INSERT SHEET No. CR-1.0

CITY MANAGER

SIDEWALKS, CURB RAMPS, AND DRIVEWAY APPROACHES

NOVEMBER 15, 2004

REVISIONS:

CURB RAMP DETAILS

CLA-235-3.92

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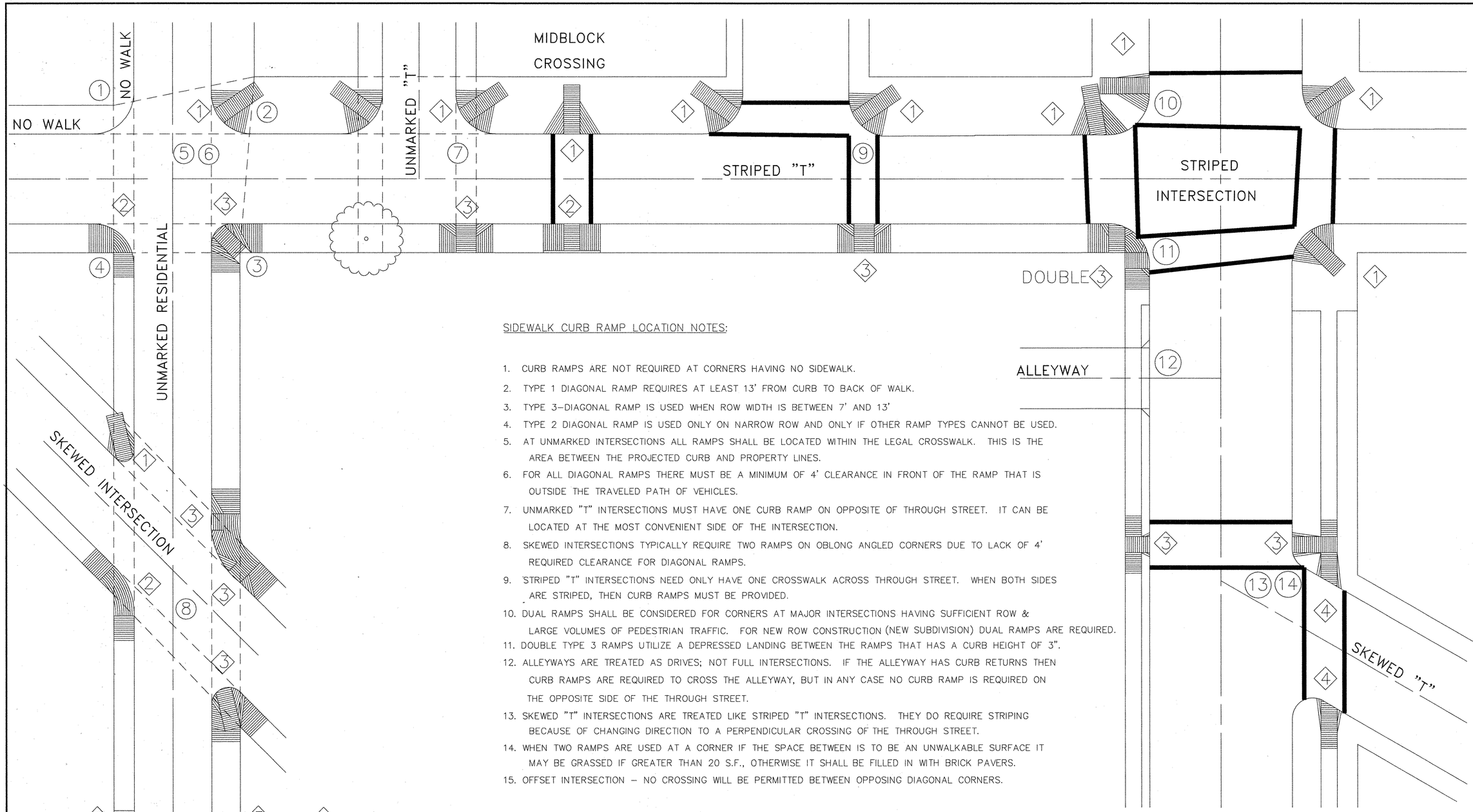

SIDEWALK CURB RAMP LOCATION NOTES:

1. CURB RAMPS ARE NOT REQUIRED AT CORNERS HAVING NO SIDEWALK.
2. TYPE 1 DIAGONAL RAMP REQUIRES AT LEAST 13' FROM CURB TO BACK OF WALK.
3. TYPE 3–DIAGONAL RAMP IS USED WHEN ROW WIDTH IS BETWEEN 7' AND 13'
4. TYPE 2 DIAGONAL RAMP IS USED ONLY ON NARROW ROW AND ONLY IF OTHER RAMP TYPES CANNOT BE USED.
5. AT UNMARKED INTERSECTIONS ALL RAMPS SHALL BE LOCATED WITHIN THE LEGAL CROSSWALK. THIS IS THE AREA BETWEEN THE PROJECTED CURB AND PROPERTY LINES.
6. FOR ALL DIAGONAL RAMPS THERE MUST BE A MINIMUM OF 4' CLEARANCE IN FRONT OF THE RAMP THAT IS OUTSIDE THE TRAVELED PATH OF VEHICLES.
7. UNMARKED "T" INTERSECTIONS MUST HAVE ONE CURB RAMP ON OPPOSITE OF THROUGH STREET. IT CAN BE LOCATED AT THE MOST CONVENIENT SIDE OF THE INTERSECTION.
8. SKEWED INTERSECTIONS TYPICALLY REQUIRE TWO RAMPS ON OBLONG ANGLED CORNERS DUE TO LACK OF 4' REQUIRED CLEARANCE FOR DIAGONAL RAMPS.
9. STRIPED "T" INTERSECTIONS NEED ONLY HAVE ONE CROSSWALK ACROSS THROUGH STREET. WHEN BOTH SIDES ARE STRIPED, THEN CURB RAMPS MUST BE PROVIDED.
10. DUAL RAMPS SHALL BE CONSIDERED FOR CORNERS AT MAJOR INTERSECTIONS HAVING SUFFICIENT ROW & LARGE VOLUMES OF PEDESTRIAN TRAFFIC. FOR NEW ROW CONSTRUCTION (NEW SUBDIVISION) DUAL RAMPS ARE REQUIRED.
11. DOUBLE TYPE 3 RAMPS UTILIZE A DEPRESSED LANDING BETWEEN THE RAMPS THAT HAS A CURB HEIGHT OF 3".
12. ALLEYWAYS ARE TREATED AS DRIVES; NOT FULL INTERSECTIONS. IF THE ALLEYWAY HAS CURB RETURNS THEN CURB RAMPS ARE REQUIRED TO CROSS THE ALLEYWAY, BUT IN ANY CASE NO CURB RAMP IS REQUIRED ON THE OPPOSITE SIDE OF THE THROUGH STREET.
13. SKEWED "T" INTERSECTIONS ARE TREATED LIKE STRIPED "T" INTERSECTIONS. THEY DO REQUIRE STRIPING BECAUSE OF CHANGING DIRECTION TO A PERPENDICULAR CROSSING OF THE THROUGH STREET.
14. WHEN TWO RAMPS ARE USED AT A CORNER IF THE SPACE BETWEEN IS TO BE AN UNWALKABLE SURFACE IT MAY BE GRASSED IF GREATER THAN 20 S.F., OTHERWISE IT SHALL BE FILLED IN WITH BRICK PAVERS.
15. OFFSET INTERSECTION – NO CROSSING WILL BE PERMITTED BETWEEN OPPOSING DIAGONAL CORNERS.

LEGEND

MARKED CROSSWALK

UNMARKED CROSSWALK

(#) CURB RAMP TYPE #

DO NOT SCALE – USE DIMENSIONS ONLY

CITY OF NEW CARLISLE	PLAN INSERT SHEET No. CR–1.2
CITY MANAGER	SIDEWALK CURB RAMPS LOCATIONS
	NOVEMBER 15, 2004
	REVISIONS:

CALCULATED KAE CHECKED DME

CURB RAMP DETAILS

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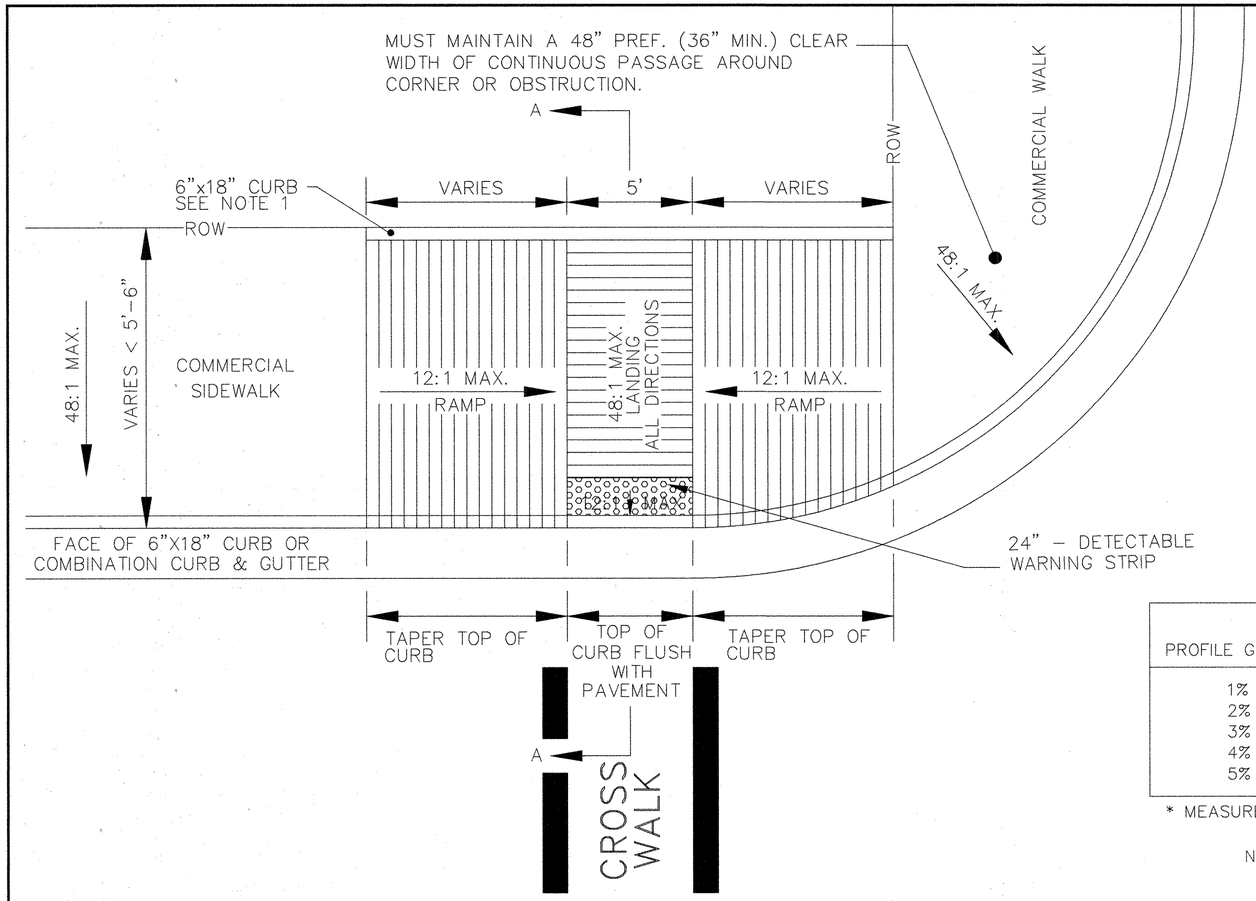
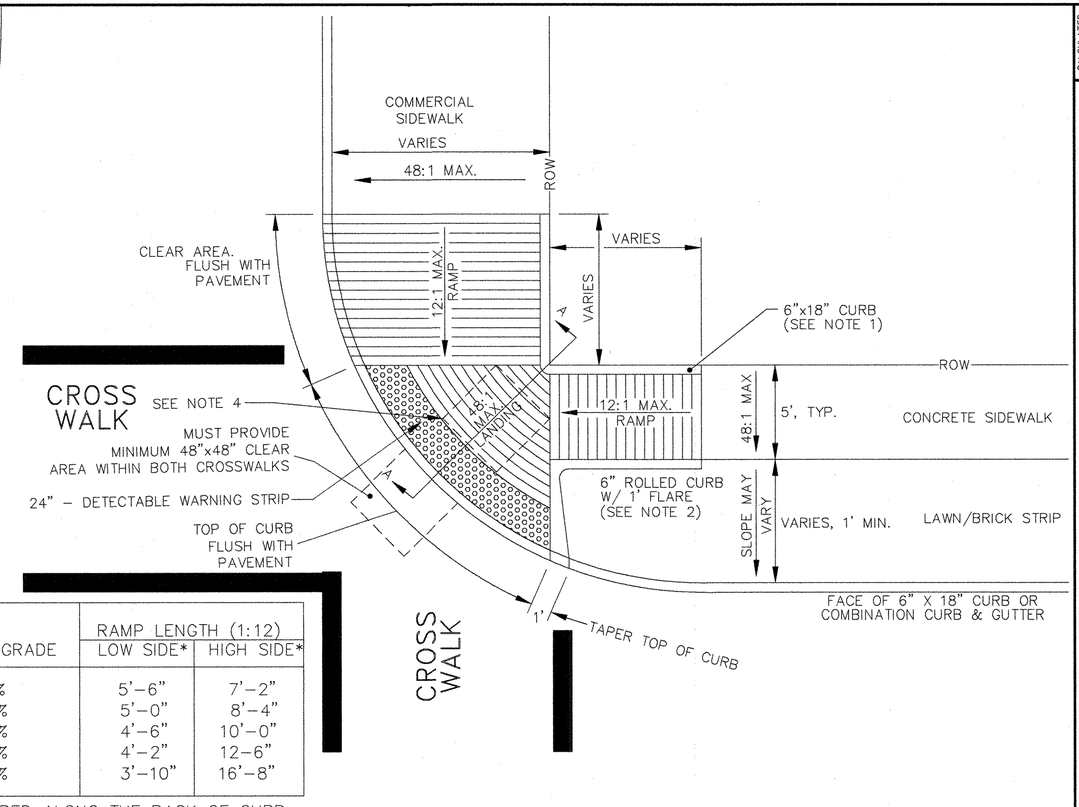


CURB RAMP TYPE 2



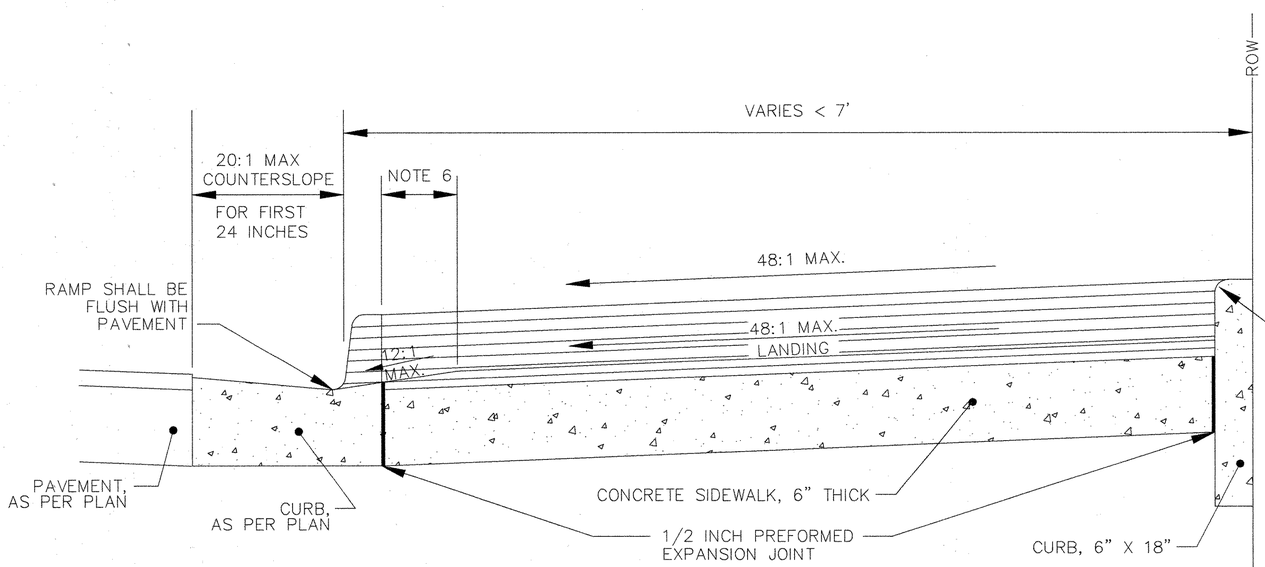
CURB RAMP TYPE 2 DIAGONAL

PROFILE GRADE	RAMP LENGTH (1:12) LOW SIDE*	RAMP LENGTH (1:12) HIGH SIDE*
1%	5'-6"	7'-2"
2%	5'-0"	8'-4"
3%	4'-6"	10'-0"
4%	4'-2"	12-6"
5%	3'-10"	16'-8"

* MEASURED ALONG THE BACK OF CURB

NOTES:

1. CURB AT BACK OF SIDEWALK IS FLUSH AT TOP OF SIDEWALK RAMPS. REVEAL GREATEST AT LANDING AND BASED ON RAMP'S EDGE SLOPES AND LENGTHS.
2. ALTERNATE FLARE TREATMENTS MAY BE USED UPON APPROVAL BY THE ENGINEER, AS FOLLOWS:
   1) INTEGRAL ROLLED CURBING AT 6-INCHES WIDTH
   2) NO CURBING OR FLARE TREATMENT
   3) CORNER SIDE FLARE MAY BE 12:1 TO CONCRETE WALK; PROVIDE MIN.3' CONCRETE AT TOP OF FLARE TO EXTENDED SIDEWALK LINE.
3. RAMP LENGTHS FOR STREET GRADES GREATER THAN 5% MUST BE REVIEWED AND APPROVED BY THE ENGINEER.
4. MAINTAIN A PREFERRED 5'x5' (4'X4' MIN.) LANDING PERPENDICULAR TO THE CURB. FOR TYPE 2, NOT IN DIAGONAL POSITION (TRANSITION RAMPS FACE EACH OTHER), A 5' MIN. LANDING LENGTH BETWEEN TRANSITION RAMPS MUST BE MAINTAINED.
5. WHEN ROW WIDTH IS 4'-6" OR LESS, THE SIDEWALK MAY BE INACCESSABLE AND CONSIDERATION SHOULD BE GIVEN TO OBTAINING ROW TO PROPERLY CONSTRUCT A CURB RAMP. ANY RAMPS LOCATED IN AREAS WITH 4'-6" ROW OR LESS MUST BE REVIEWED AND APPROVED BY THE ENGINEER.
6. 0"-24" BASED ON AVAILABLE ROW (LANDINGS < 5' WIDE WILL HAVE NO 12:1)



SECTION A-A

DO NOT SCALE - USE DIMENSIONS ONLY

CITY OF NEW CARLISLE	PLAN INSERT SHEET No. CR-1.4
CITY MANAGER	CURB RAMP TYPE 2 PARALLEL NOVEMBER 15,2004
	REVISIONS:

CALCULATED KAE CHECKED DME

CURB RAMP DETAILS

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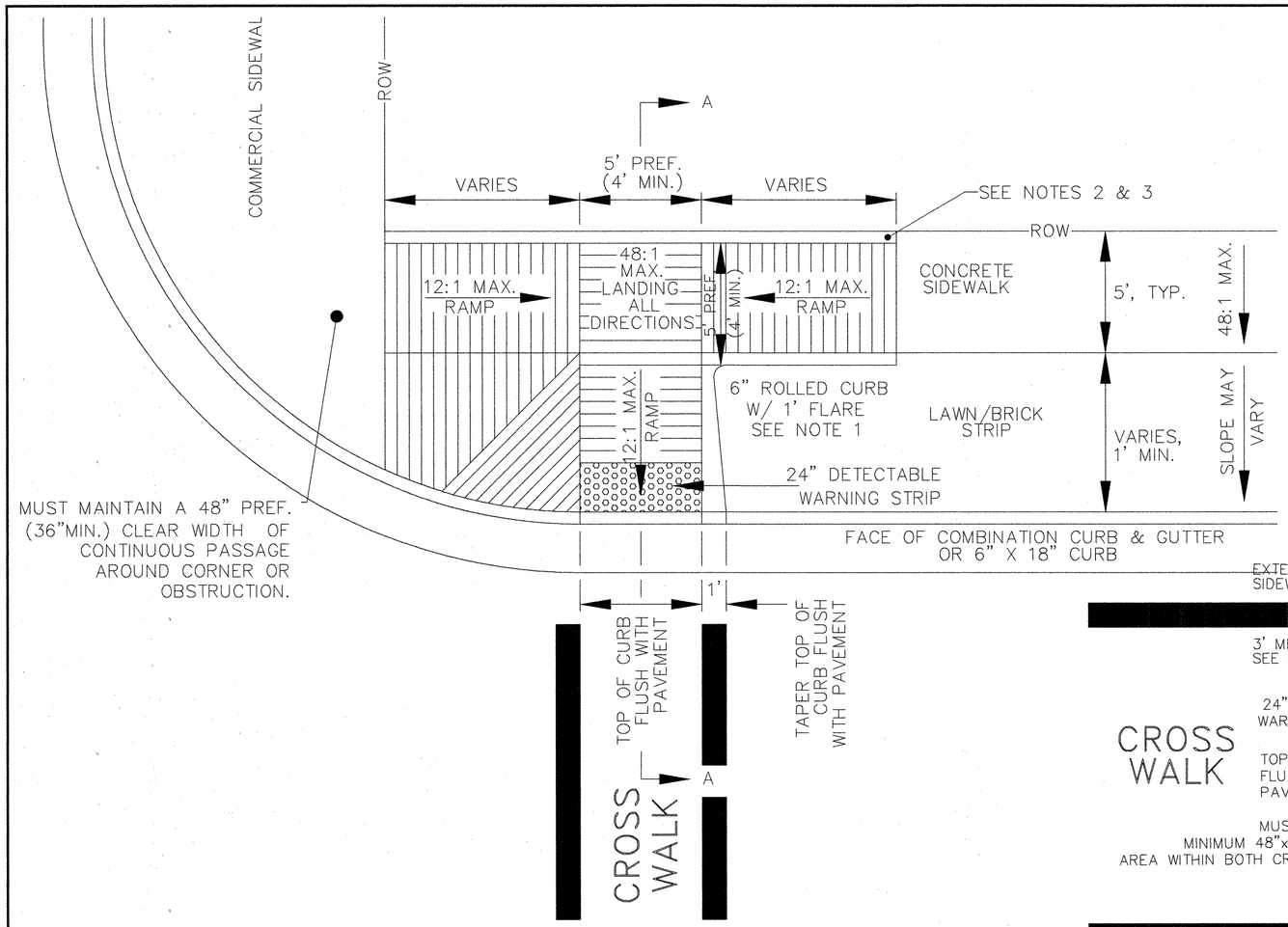
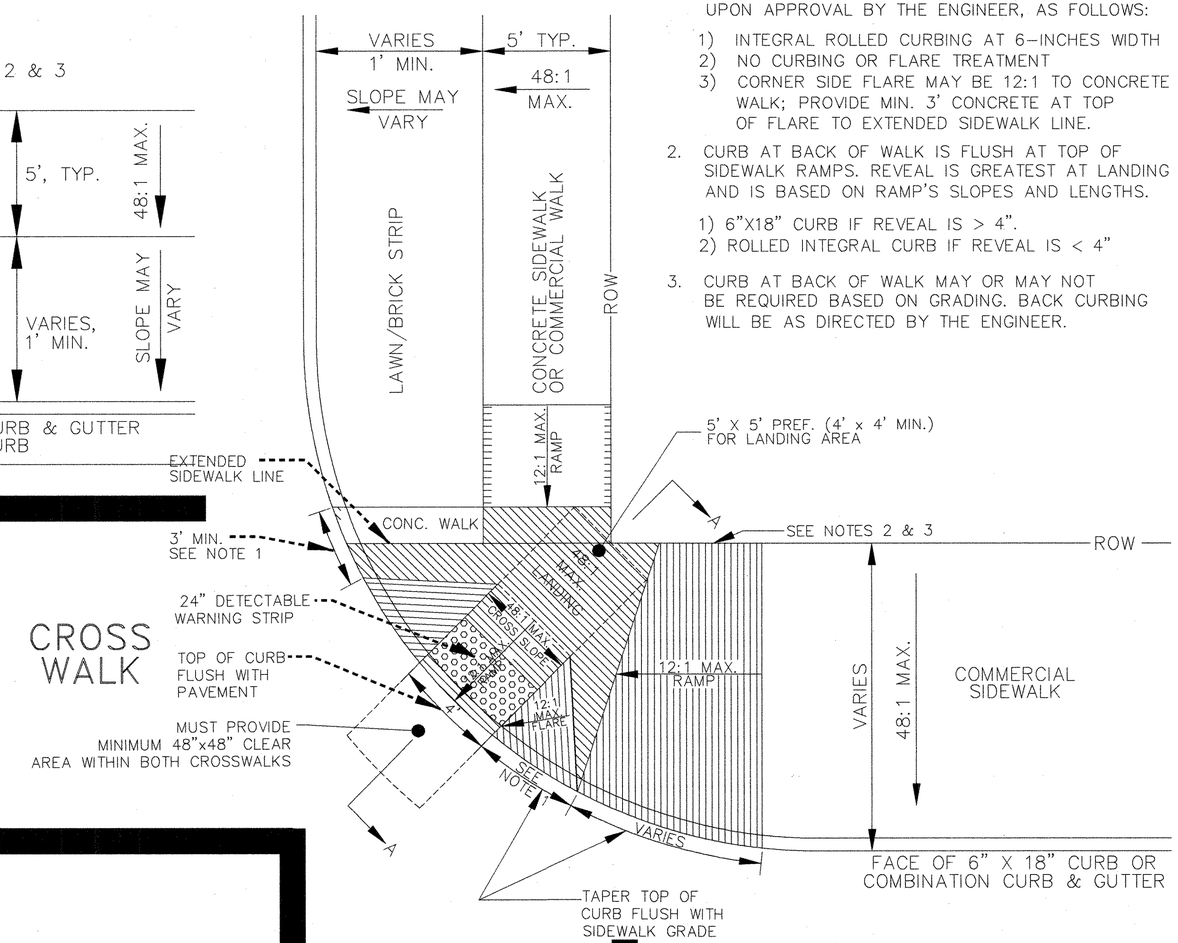


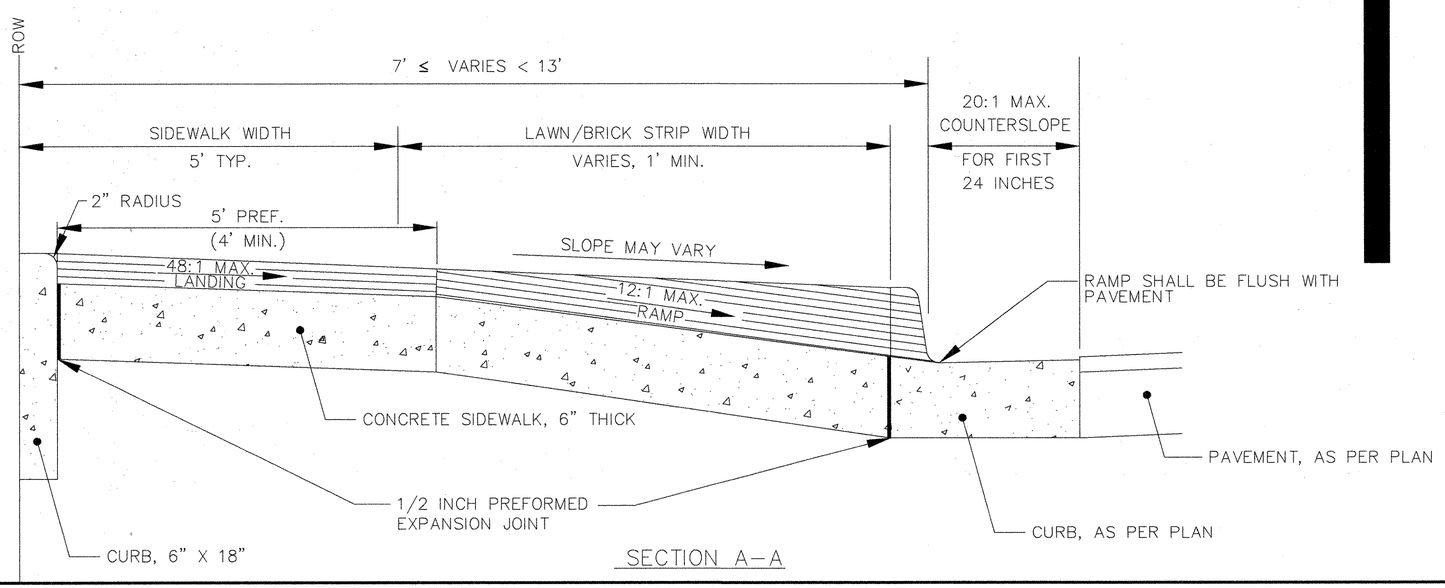
CURB RAMP TYPE 3

NOTES:

1. ALTERNATE FLARE TREATMENTS MAY BE USED UPON APPROVAL BY THE ENGINEER, AS FOLLOWS:
   1) INTEGRAL ROLLED CURBING AT 6-INCHES WIDTH
   2) NO CURBING OR FLARE TREATMENT
   3) CORNER SIDE FLARE MAY BE 12:1 TO CONCRETE WALK; PROVIDE MIN. 3' CONCRETE AT TOP OF FLARE TO EXTENDED SIDEWALK LINE.
2. CURB AT BACK OF WALK IS FLUSH AT TOP OF SIDEWALK RAMPS. REVEAL IS GREATEST AT LANDING AND IS BASED ON RAMP'S SLOPES AND LENGTHS.
   1) 6"X18" CURB IF REVEAL IS > 4".
   2) ROLLED INTEGRAL CURB IF REVEAL IS < 4"
3. CURB AT BACK OF WALK MAY OR MAY NOT BE REQUIRED BASED ON GRADING. BACK CURBING WILL BE AS DIRECTED BY THE ENGINEER.



CURB RAMP TYPE 3 DIAGONAL



SECTION A-A

DO NOT SCALE – USE DIMENSIONS ONLY

CITY OF NEW CARLISLE	PLAN INSERT SHEET No. CR-1.5
CITY MANAGER	CURB RAMP TYPE 3 COMBINATION NOVEMBER 15, 2004
	REVISIONS:

CALCULATED KAE
CHECKED DME

CURB RAMP DETAILS

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SHEET NUMBER										PARTICIPATION		ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
3	5	11	13	21	23	24	25	26	27	STP	TE						
																ROADWAY	
LUMP										LUMP		201	11000	LUMP		CLEARING AND GRUBBING	3
				728	3525	1942	359	733	6	7293		202	30000	7293	SQ FT	WALK REMOVED	
					LUMP					LUMP		202	98000	LUMP		REMOVAL MISC.: CONCRETE PLANTERS	3
					1					1		202	98100	1	EACH	REMOVAL MISC.: FLAGPOLE	
						2				2		202	98100	2	EACH	REMOVAL MISC.: POST	
6										6		301	46000	6	CU YD	ASPHALT CONCRETE BASE, PG64-22	3
					596	499	253			1348		608	52001	1348	SQ FT	CURB RAMP, AS PER PLAN	3
				1042	3110	1246		733	6		6137	608	98000	6137	SQ FT	WALKWAY MISC.: BRICK PAVERS	4
				2	2						4	SPECIAL	69098000	4	EACH	SPECIAL - MISC.: 3' X 3' TREE GRATE	4
				2	8	4		2			16	SPECIAL	69098000	16	EACH	SPECIAL - MISC.: 4' X 4' TREE GRATE	4
																DRAINAGE	
40										40		603	00400	40	FT	4" CONDUIT, TYPE E	3
		104								104		603	04400	104	FT	12" CONDUIT, TYPE B, 706.02	
		55								55		603	97010	55	FT	SLOTTED DRAIN, 12", TYPE 2	
		2								2		604	09500	2	EACH	CATCH BASIN RECONSTRUCTED TO GRADE	
																TRAFFIC CONTROL	
					11.5	11.5	24.0			47.0		630	02100	47.0	FT	GROUND MOUNTED SUPPORT, NO. 2 POST	
					1	1	2			4		630	85100	4	EACH	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION	
					2	1	2			5		630	86002	5	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	
			90							90		642	00490	90	FT	STOP LINE	
			396							396		642	00590	396	FT	CROSSWALK LINE	
			476							476		642	30000	476	FT	REMOVAL OF PAVEMENT MARKING	
																TRAFFIC SIGNAL	
			80							80		603	00400	80	FT	4" CONDUIT, TYPE E	
			45							45		625	25400	45	FT	CONDUIT, 2", 725.04	
			102							102		625	25500	102	FT	CONDUIT, 3", 725.04	
			35							35		625	29002	35	FT	TRENCH, 24" DEEP	
			112							112		625	29500	112	FT	TRENCH IN PAVED AREA, TYPE A	
			4							4		625	30700	4	EACH	PULL BOX, 725.08, 18"	
			4							4		625	32000	4	EACH	GROUND ROD	
			1							1		630	79000	1	EACH	SIGN HANGER ASSEMBLY, SPAN WIRE	
			7.5							7.5		630	80100	7.5	SQ FT	SIGN, FLAT SHEET	
			4							4		632	01000	4	EACH	VEHICHULAR SIGNAL HEAD, 3 SECTION, 8" LENS, 2-WAY	
			8							8		632	20600	8	EACH	PEDESTRIAN SIGNAL HEAD, TYPE D2	
			4							4		632	25000	4	EACH	COVERING OF VEHICULAR SIGNAL HEAD	
			8							8		632	25010	8	EACH	COVERING OF PEDESTRIAN SIGNAL HEAD	
			4							4		632	26000	4	EACH	PEDESTRIAN PUSHBUTTON	
			95							95		632	30200	95	FT	MESSENGER WIRE, 7 STRAND, 3/8" DIAMETER WITH ACCESSORIES	
			1179							1179		632	40700	1179	FT	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG	
			2							2		632	64000	2	EACH	STRAIN POLE FOUNDATION	
			2							2		632	64020	2	EACH	PEDESTAL FOUNDATION	
			35							35		632	67200	35	FT	POWER CABLE, 2 CONDUCTOR, NO. 8 AWG	
			35							35		632	69400	35	FT	SERVICE CABLE, 2 CONDUCTOR, NO. 8 AWG	
			1							1		632	70001	1	EACH	POWER SERVICE, AS PER PLAN	4
			2							2		632	82500	2	EACH	STRAIN POLE, TYPE TC-81.10, DESIGN 5	
			2							2		632	89610	2	EACH	PEDESTAL, 9'	
			1							1		632	90100	1	EACH	REMOVAL OF TRAFFIC SIGNAL INSTALLATION	4
			1							1		632	90212	1	EACH	REUSE OF CONTROLLER	
																MAINTENANCE OF TRAFFIC	
	50									50		614	11100	50	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR	5
																FOR LIGHTING GENERAL SUMMARY, SEE SHEET 15	
										LUMP		614	11000	LUMP		MAINTAINING TRAFFIC	5
										6		619	16000	6	MONTH	FIELD OFFICE, TYPE A	
										LUMP		623	10000	LUMP		CONSTRUCTION LAYOUT STAKES	
										LUMP		624	10000	LUMP		MOBILIZATION	

CALCULATED KAE
CHECKED DME

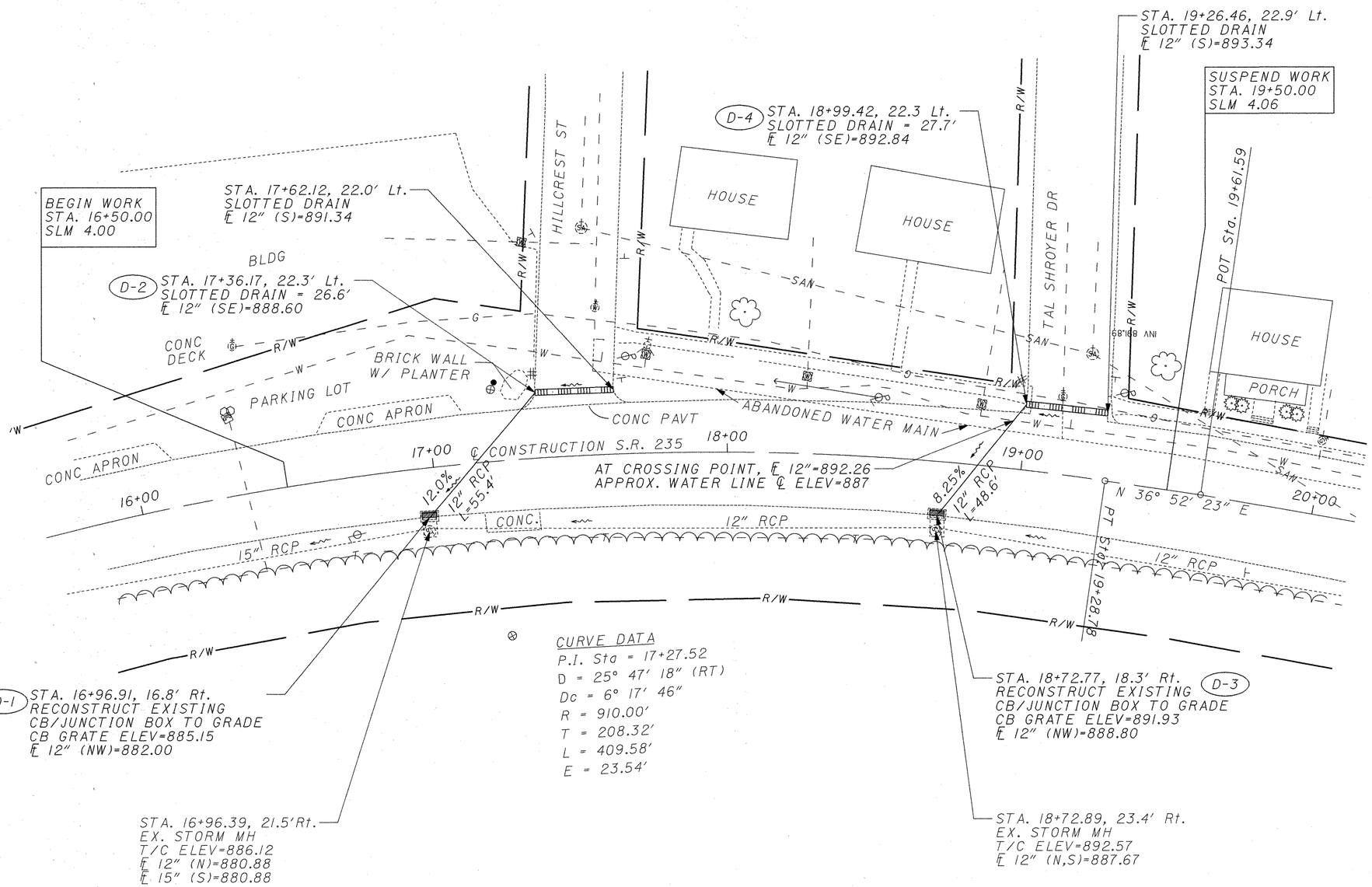
GENERAL SUMMARY

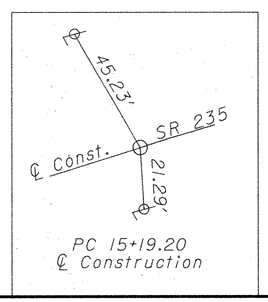
CLA-235-3.92

$DATE$
$FILE$

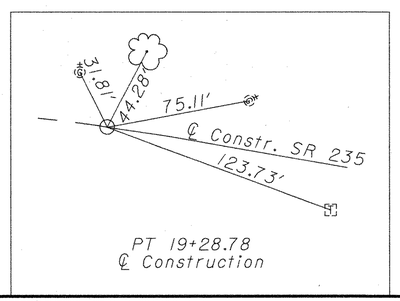
NOTES:

1. ALL STATIONING IS TO ℄ S.R. 235, UNLESS OTHERWISE NOTED.

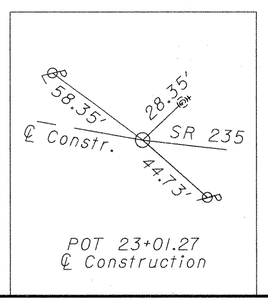




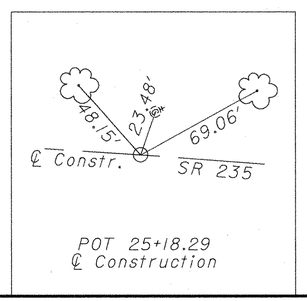
PC 15+19.20
℄ Construction



PT 19+28.78
℄ Construction



POT 23+01.27
℄ Construction



POT 25+18.29
℄ Construction

BM #1, Sta. 48+29.53
Fire Hydrant, North Collar Bolt
23.5' Rt., Elev. 904.58'

REF NO.	STATION FROM	STATION TO	SIDE	603 12" CONDUIT, TYPE B, 706.02 FT	603 SLOTTED DRAIN, 12", TYPE 2 FT	604 CATCH BASIN RECON.TO GRADE EACH
D-1	16+96.91	17+36.17	RT&LT	55		1
D-2	17+36.17	17+62.12	LT		27	
D-3	18+72.77	18+99.42	RT&LT	49		1
D-4	18+99.42	19+26.46	LT		28	
TOTALS CARRIED TO GENERAL SUMMARY				104	55	2

HORIZONTAL SCALE IN FEET 0 10 20 40

CALCULATED KAE
CHECKED DME

MISC. PLAN SHEET
S.R. 235 (MAIN STREET)

CLA-235-3.92

01/03/2005
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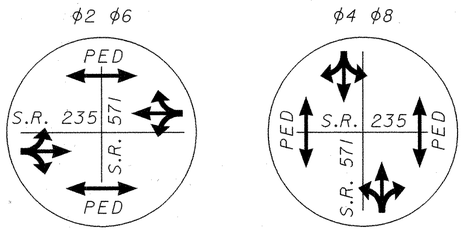
PHASE DIAGRAM

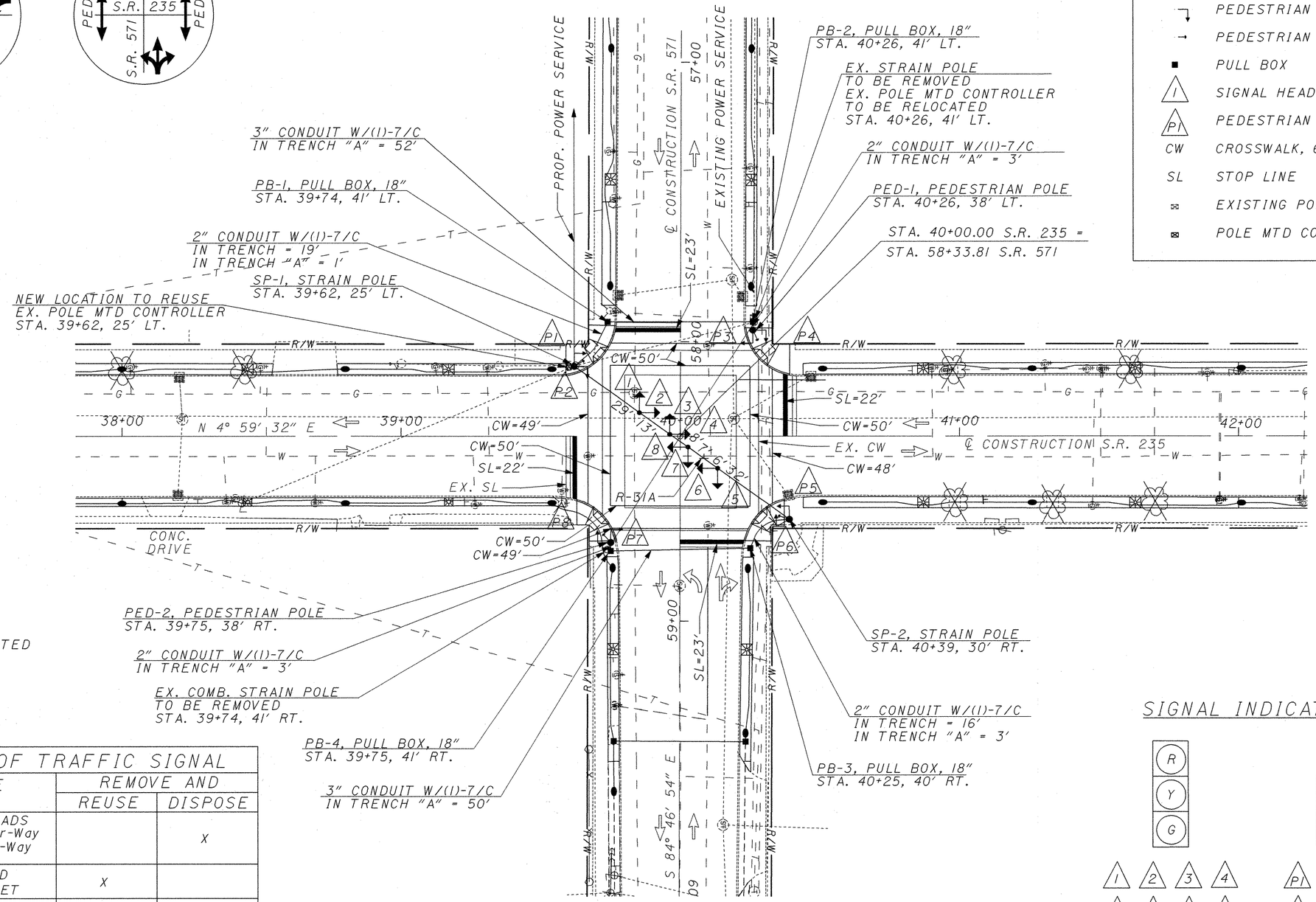


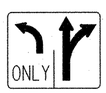
NOTES:

1. SEE SHEET 13 FOR ADDITIONAL SIGNAL PLAN INFORMATION AND QUANTITIES.
2. POWER SHALL BE SUPPLIED TO THE TOP OF POLE "SP-1" BY DP&L.
3. ALL STATIONING IS TO C/L OF SR 235, UNLESS OTHERWISE NOTED.

LEGEND

- SIGNAL POLE/PEDESTRIAN POLE
- EXISTING SIGNAL POLE
- 3-SECTION SIGNAL HEAD
- PEDESTRIAN HEAD
- PEDESTRIAN PUSH BUTTON
- PULL BOX
- 1 — SIGNAL HEAD ID NUMBER
- P1 — PEDESTRIAN HEAD ID NUMBER
- CW — CROSSWALK, 6"
- SL — STOP LINE
- EXISTING POLE MTD CONTROLLER
- POLE MTD CONTROLLER



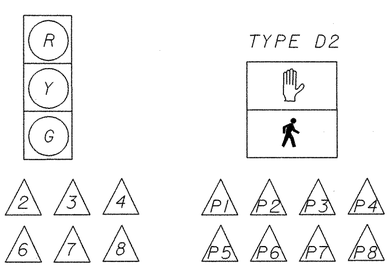


R-31A-36
SPAN WIRE MOUNTED

REMOVAL OF TRAFFIC SIGNAL

ITEM TO BE REMOVED	REMOVE AND	
	REUSE	DISPOSE
VEH. SIGNAL HEADS (1)-3 Section, Four-Way (4)-3 Section, One-Way		X
POLE MOUNTED CONTROL CABINET	X	
CABLE & WIRE		X
SPAN WIRE MTD SIGN		X
POLE & FOUNDATION		X

SIGNAL INDICATIONS



ALL LENSES SHALL BE 8", AND EQUIPPED WITH TUNNEL VISORS

N

HORIZONTAL SCALE IN FEET 0 10 20 40

CALCULATED KAE
CHECKED PRF

TRAFFIC SIGNAL PLAN
S.R. 235 AND S.R. 571

CLA-235-3.92

01/03/2005
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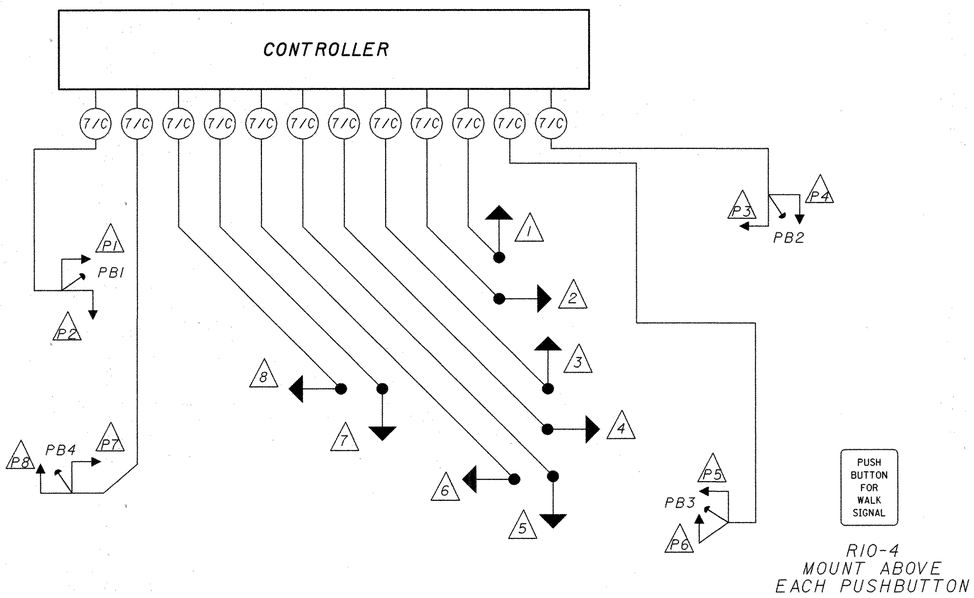
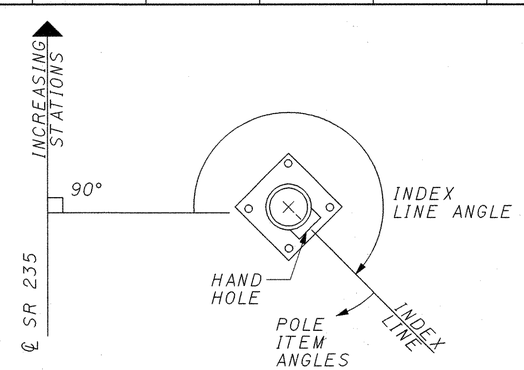
WIRING DIAGRAM



TRAFFIC CONTROL AND TRAFFIC SIGNAL QUANTITIES (CARRIED TO GENERAL SUMMARY)				
				TRAFFIC CONTROL
642	00490	90	FT	STOP LINE
642	00590	396	FT	CROSSWALK
642	30000	476	FT	REMOVAL OF PAVEMENT MARKING
				TRAFFIC SIGNAL
603	00400	80	FT	4" CONDUIT, TYPE E
625	25400	45	FT	CONDUIT, 2", 725.04
625	25500	102	FT	CONDUIT, 3", 725.04
625	29002	35	FT	TRENCH, 24" DEEP
625	29500	112	FT	TRENCH IN PAVED AREA, TYPE A
625	30700	4	EACH	PULL BOX, 725.08, 18"
625	32000	4	EACH	GROUND ROD
630	79000	1	EACH	SIGN HANGER ASSEMBLY, SPAN WIRE
630	80100	7.5	SQ FT	SIGN, FLAT SHEET
632	01000	4	EACH	VEHICHULAR SIGNAL HEAD, 3 SECTION, 8" LENS, 2-WAY
632	20600	8	EACH	PEDESTRIAN SIGNAL HEAD, TYPE D2
632	25000	4	EACH	COVERING OF VEHICULAR SIGNAL HEAD
632	25010	8	EACH	COVERING OF PEDESTRIAN SIGNAL HEAD
632	26000	4	EACH	PEDESTRIAN PUSHBUTTON
632	30200	95	FT	MESSENGER WIRE, 7 STRAND,Δ" DIAMETER WITH ACCESSORIES
632	40700	1179	FT	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG
632	64000	2	EACH	STRAIN POLE FOUNDATION
632	64020	2	EACH	PEDESTAL FOUNDATION
632	67200	35	FT	POWER CABLE, 2 CONDUCTOR, NO. 8 AWG
632	69400	35	FT	SERVICE CABLE, 2 CONDUCTOR, NO. 8 AWG
632	70001	1	EACH	POWER SERVICE, AS PER PLAN
632	82500	2	EACH	STRAIN POLE, TYPE TC-81.10, DESIGN 5
632	89610	2	EACH	PEDESTAL, 9'
632	90100	1	EACH	REMOVAL OF TRAFFIC SIGNAL INSTALLATION
632	90212	1	EACH	REUSE OF CONTROLLER

STRAIN POLE/PEDESTRIAN POLE DATA					ANGLES (DEG.) FROM INDEX LINE				
POLE NUMBER	POLE DESIGN	POLE HEIGHT	ATTACHMENT HEIGHT	INDEX LINE ANGLE	HAND HOLE	PED. SIGNALS	PED. PUSH BUTTONS	POWER SERVICE	CABLE ENTRANCE
SP-1	5	28'	25.8'	135°	0°	45°/135°	90°	45°	180°
SP-2	5	28'	25.8'	135°	0°	90°/225°	180°	--	180°
PED-1	--	9'	9'	135°	0°	225°/315°	225°	--	--
PED-2	--	9'	9'	225°	0°	45°/135°	135°	--	--

NOTES:
1. ALL ANGLES ARE MEASURED CLOCKWISE.
2. THE INDEX LINE GOES THROUGH THE CENTER OF THE HANDHOLE.



SIGNAL DISPLAY SCHEDULE									FLASH
	ϕ2 & ϕ6				ϕ4 & ϕ8				
SIGNAL	R/W	CLEAR			R/W	CLEAR			
1	G	G	Y	R	R	R	R	R	Y
2	G	G	Y	R	R	R	R	R	Y
3	R	R	R	R	G	G	Y	R	R
4	R	R	R	R	G	G	Y	R	R
5	G	G	Y	R	R	R	R	R	Y
6	G	G	Y	R	R	R	R	R	Y
7	R	R	R	R	G	G	Y	R	R
8	R	R	R	R	G	G	Y	R	R
P1	W	FDW	DW	DW	DW	DW	DW	DW	OFF
P2	DW	DW	DW	DW	W	FDW	DW	DW	OFF
P3	DW	DW	DW	DW	W	FDW	DW	DW	OFF
P4	W	FDW	DW	DW	DW	DW	DW	DW	OFF
P5	W	FDW	DW	DW	DW	DW	DW	DW	OFF
P6	DW	DW	DW	DW	W	FDW	DW	DW	OFF
P7	DW	DW	DW	DW	W	FDW	DW	DW	OFF
P8	W	FDW	DW	DW	DW	DW	DW	DW	OFF

SIGNAL TIMING		
FUNCTION	PHASE	
	ϕ2&ϕ6	ϕ4&ϕ8
MINIMUM	25	25
MAXIMUM	25	25
WALK	7	7
FLASH DW	14	14
EXTENSION	3	3
ADDED INITIAL		
FLASH	Y	R
VEHICLE RECALL	MIN	MIN
MINIMUM GREEN		
YELLOW	3.0	3.6
RED CLEAR	1.5	1.2
RED REVERT		

CALCULATED KAE
CHECKED PRF

SUPPLEMENTAL SIGNAL PLAN INFORMATION
S.R. 235 AND S.R. 571

CLA-235-3.92

01/03/2005
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UNDERGROUND UTILITIES

THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS AS REQUIRED BY SECTION 153.64 O.R.C.

AT LEAST 48 HOURS BEFORE DIGGING, THE CONTRACTOR SHALL CALL THE OHIO UTILITIES PROTECTION SERVICE, TOLL-FREE, 800-362-2764. NON-MEMBER UTILITY COMPANIES MUST BE CALLED DIRECTLY. SEE SHEET 3 FOR ADDITIONAL INFORMATION.

UNDERDRAINS FOR PULL BOXES

REFERENCE IS MADE TO THE STANDARD DRAWINGS FOR DETAILS OF DRAINING PULL BOXES. UNDERDRAINS FOR PULL BOXES SHALL BE USED AS DIRECTED BY THE ENGINEER AND SHALL BE PROVIDED WHERE THE LENGTH REQUIRED FOR A SATISFACTORY OUTLET DOES NOT EXCEED APPROXIMATELY 20 FEET. AN ANIMAL GUARD SHALL BE INCLUDED AT THE OUTLET END OF THE DRAIN. AN ESTIMATED QUANTITY OF CMS ITEM 603, "4" CONDUIT, TYPE E" IS INCLUDED AT EACH PULL BOX FOR THIS PURPOSE.

625, LUMINAIRE, MISC: DECORATIVE, 100 W HPS, 120 VOLT, ACORN TYPE

IN ADDITION TO THE REQUIREMENTS OF ODOT'S CONSTRUCTION AND MATERIAL SPECIFICATIONS, LUMINAIRES FOR POST-TOP LIGHTING UNITS SHALL BE AS FOLLOWS:

LUMINAIRES SHALL BE HOLOPHANE "WASHINGTON POSTLITE" WITH PHOTOMETRIC DISTRIBUTION 47359 (MN, TYPE IV), GENERAL ELECTRIC "TORCH" WITH PHOTOMETRIC DISTRIBUTION GE450672 (MN, TYPE IV) OR EQUAL APPROVED BY THE ENGINEER.

EACH LUMINAIRE SHALL BE 120 VOLTAGE AND INCLUDE A 100 W HPS LAMP AND DECORATIVE FINIAL, BAND, AND MEDALLIONS. LUMINAIRES, FINIALS, BANDS AND MEDALLIONS SHALL BE BLACK IN COLOR.

LUMINAIRE REFRACTORS SHALL BE BORESILICATE GLASS.

PAYMENT WILL BE MADE AT THE UNIT PRICE BID UNDER CMS ITEM 625, "LUMINAIRE, MISC.: DECORATIVE, 100 W HPS, 120 VOLT, ACORN TYPE, AS PER PLAN" FOR EACH LUMINAIRE WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

625, LUMINAIRE, MISC: DECORATIVE, 100 W HPS, 120 VOLT, ACORN TYPE (HOLOPHANE) - ALTERNATE BID

IN ADDITION TO THE REQUIREMENTS OF ODOT'S CONSTRUCTION AND MATERIAL SPECIFICATIONS, LUMINAIRES FOR POST-TOP LIGHTING UNITS SHALL BE AS FOLLOWS:

LUMINAIRES SHALL BE HOLOPHANE "WASHINGTON POSTLITE" WITH PHOTOMETRIC DISTRIBUTION 47359 (MN, TYPE IV).

EACH LUMINAIRE SHALL BE 120 VOLTAGE AND INCLUDE A 100 W HPS LAMP AND DECORATIVE FINIAL, BAND, AND MEDALLIONS. LUMINAIRES, FINIALS, BANDS AND MEDALLIONS SHALL BE BLACK IN COLOR.

LUMINAIRE REFRACTORS SHALL BE BORESILICATE GLASS.

PAYMENT WILL BE MADE AT THE UNIT PRICE BID UNDER CMS ITEM 625, "LUMINAIRE, MISC.: DECORATIVE, 100 W HPS, 120 VOLT, ACORN TYPE, AS PER PLAN-ALTERNATE BID" FOR EACH LUMINAIRE WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

625, LIGHT POLE, MISC: POST TOP, DECORATIVE, ANCHOR BASE, 12' POLE

IN ADDITION TO THE REQUIREMENTS OF ODOT'S CONSTRUCTION AND MATERIAL SPECIFICATIONS, DECORATIVE LIGHT POLES FOR POST-TOP LIGHTING UNITS SHALL BE AS FOLLOWS:

LIGHT POLES SHALL BE HOLOPHANE "HAMILTON SERIES" WITH ANCHOR TYPE BASE, GENERAL ELECTRIC "HAIGHT-ASHBURY SERIES" WITH ANCHOR TYPE BASE, OR EQUAL APPROVED BY THE ENGINEER.

LIGHT POLES SHALL BE 12' ALUMINUM POLES WITH 4" FLUTED SHAFT AND 10" ANCHOR BASE. LIGHT POLES SHALL HAVE THE FOLLOWING ACCESORIES: 24" BANNER ARM, FLAG POLE HOLDER AND 120 V WEATHERPROOF DUPLEX RECEPTACLE WITH IN-USE WET LOCATION COVER (EXTERNAL, POST SHAFT LOCATION). LIGHT POLES, BASES AND ACCESSORIES SHALL BE BLACK IN COLOR.

PAYMENT WILL BE MADE AT THE UNIT PRICE BID UNDER CMS ITEM 625, "LIGHT POLE, MISC.: POST TOP, DECORATIVE, ANCHOR BASE, 12' POLE, AS PER PLAN" FOR EACH LIGHT POLE WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

625, LIGHT POLE, MISC: POST TOP, DECORATIVE, ANCHOR BASE, 12' POLE (HOLOPHANE) - ALTERNATE BID

IN ADDITION TO THE REQUIREMENTS OF ODOT'S CONSTRUCTION AND MATERIAL SPECIFICATIONS, DECORATIVE LIGHT POLES FOR POST-TOP LIGHTING UNITS SHALL BE AS FOLLOWS:

LIGHT POLES SHALL BE HOLOPHANE "HAMILTON SERIES" WITH ANCHOR TYPE BASE.

LIGHT POLES SHALL BE 12' ALUMINUM POLES WITH 4" FLUTED SHAFT AND 10" ANCHOR BASE. LIGHT POLES SHALL HAVE THE FOLLOWING ACCESORIES: 24" BANNER ARM, FLAG POLE HOLDER AND 120 V WEATHERPROOF DUPLEX RECEPTACLE WITH IN-USE WET LOCATION COVER (EXTERNAL, POST SHAFT LOCATION). LIGHT POLES, BASES AND ACCESSORIES SHALL BE BLACK IN COLOR.

PAYMENT WILL BE MADE AT THE UNIT PRICE BID UNDER CMS ITEM 625, "LIGHT POLE, MISC.: POST TOP, DECORATIVE, ANCHOR BASE, 12' POLE, AS PER PLAN-ALTERNATE BID" FOR EACH LIGHT POLE WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

ALTERNATING LIGHT POLE WIRING

IN ADDITION TO THE REQUIREMENTS OF ODOT'S CONSTRUCTION AND MATERIAL SPECIFICATIONS AND ODOT STANDARD DRAWINGS, THE FOLLOWING SHALL APPLY TO THE LIGHT POLE WIRING:

LIGHT POLES ARE LABELED WITH AN ALPHANUMERIC SYSTEM USING TWO LETTERS FOLLOWED BY ONE NUMBER WHICH REPRESENT THE POWER SERVICE, CIRCUIT AND POLE NUMBER, RESPECTIVELY (I.E. AA-1 = POWER SERVICE "A", CIRCUIT "A", POLE NO.1).

THE TWO LIVE WIRES IN THE 120/240 V SINGLE PHASE, 3 WIRE LIGHTING CIRCUIT SHALL BE ALTERNATELY WIRED TO THE LIGHT POLES BASED ON THE POLE NUMBER. THE EVEN-NUMBERED LIGHT POLES ON ONE CIRCUIT SHALL BE WIRED USING LIVE #1 (120 V) AND NEUTRAL. THE ODD-NUMBERED LIGHT POLES ON THE SAME CIRCUIT SHALL BE WIRED USING LIVE #2 (120 V) AND NEUTRAL.

THE POLE AND BRACKET CABLE SHALL BE WIRED TO THE GFI OUTLET FIRST, THEN TO THE LUMINAIRE. THE LUMINAIRE SHALL BE WIRED SUCH THAT THE PROTECTION FEATURE OF THE GFI OUTLET WILL NOT AFFECT THE OPERATION OF THE LUMINAIRE.

EXISTING STREET LIGHTING

EXISTING STREET LIGHTING ON SR 235 AND SR 571 WITHIN THE PROJECT LIMITS IS OWNED AND MAINTAINED BY DPL ENERGY AND IS LEASED TO THE CITY OF NEW CARLISLE.

EXISTING STREET LIGHTING WITHIN THE PROJECT LIMITS WILL BE REMOVED BY DPL ENERGY AT NO COST TO THE PROJECT. THIS LIGHTING IS LABELED IN THE PLANS AS "REMOVED BY BY OTHERS".

625, POWER SERVICE, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF THE SPECIFICATIONS, THE FOLLOWING IS ADDED.

THE POWER SUPPLYING AGENCY FOR THIS PROJECT IS:

POWER COMPANY: DAYTON POWER AND LIGHT COMPANY

ADDRESS: 1900 DRYDEN ROAD, DAYTON, OH 45439

PHONE #: (937) 331-4860

CONTACT NAME: ROBERT WRIGHT

THE POWER SERVICE SHALL BE 120/240 VOLTAGE, MULTI-CIRCUIT AND GROUND MOUNTED. SUFFICIENT SPACE SHALL BE PROVIDED FOR A MINIMUM OF FOUR CIRCUITS WITH ANY SINGLE CIRCUIT CAPABLE OF HAVING UP TO AND INCLUDING 60 AMPS. THE LIGHTING CIRCUIT SHALL BE A 120/240 V, SINGLE PHASE, 3 WIRE CIRCUIT UTILIZING AN ALTERNATE POLE WIRING SCHEME. SEE "ALTERNATING LIGHT POLE WIRING" NOTE ON THIS SHEET FOR ADDITIONAL INFORMATION. THE CIRCUIT SHALL BE PROPERLY GROUNDED AS PER ODOT SPECIFICATIONS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY CHARGES MADE BY THE POWER COMPANY FOR WORK BY THE COMPANY IN CONJUNCTION WITH THE ESTABLISHMENT OF THE REQUIRED SERVICE.

ELECTRICAL ENERGY FROM EXISTING POWER SERVICES SHALL CONTINUE TO BE CHARGED TO THE MAINTAINING AGENCY. THE CONTRACTOR SHALL PAY ELECTRICAL ENERGY CHARGES FOR NEW POWER SERVICES ESTABLISHED BY THIS PROJECT. AFTER ACCEPTANCE OF THE LIGHTING, THE POWER SERVICE ELECTRICAL ENERGY ACCOUNT SHALL BE TRANSFERRED TO THE MAINTAINING AGENCY NOTED IN THE PLANS.

THIS SHALL INCLUDE NEW POWER SERVICE ESTABLISHED BY THIS PROJECT AS WELL AS REASSIGNMENT OF EXISTING SERVICE DUE TO WORK PERFORMED BY THIS PROJECT.

PAYMENT WILL BE MADE AT THE UNIT BID PRICE FOR EACH CMS ITEM 625, "POWER SERVICE, AS PER PLAN" WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

725.14 LAMPS

HIGH PRESSURE SODIUM LAMPS SHALL BE GENERAL ELECTRIC "LUCALOX," OSRAM SYLVANIA "LUMALUX," PHILIPS "CERAMALUX," OR EQUAL APPROVED BY THE ENGINEER.

625, HIGH VOLTAGE TEST

A LUMP SUM FOR PERFORMING THE HIGH VOLTAGE TEST REQUIRED BY CMS 625.19.E HAS BEEN INCLUDED IN THE GENERAL SUMMARY.

SUBSUMMARY SHEET NO. / PLAN SHEET NO.							PARTICIPATION			ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
	16/21	17/22	18/24	19/25	20/26	20/27	STP	TE							
	60	40	60	100	40		300			603	00400	300	FT	4" CONDUIT, TYPE E	
	12	26	12		4	2	56			625	00500	56	EACH	CONNECTOR KIT, TYPE II	
	9	6	9	15	6		45			625	01500	45	EACH	CABLE SPLICING KIT	
	6	13	6		2	1	28			625	10500	28	EACH	LIGHT POLE, MISC.: POST TOP, DECORATIVE, ANCHOR BASE, 12' POLE	14
	6	13	6		2	1	28			625	14000	28	EACH	LIGHT POLE FOUNDATION, 24" X 6' DEEP	
	1545	3075	2082	1167	957	48	8874			625	23300	8874	FT	NO.2 AWG 5000 VOLT DISTRIBUTION CABLE	
	168	364	168		56	28	784			625	23400	784	FT	NO.10 AWG POLE AND BRACKET CABLE	
	425	885	599	334	269	11	2523			625	25500	2523	FT	CONDUIT, 3", 725.04	
	6	13	6		2	1	28			625	27600	28	EACH	LUMINAIRE, MISC.: DECORATIVE, 100 W HPS, 120 VOLT, ACORN TYPE	14
	299	788	468	200	175	11	1941			625	29002	1941	FT	TRENCH, 24" DEEP	
	126	97	131	134	94		582			625	29500	582	FT	TRENCH IN PAVED AREA, TYPE A	
	3	2	3	5	2		15			625	30700	15	EACH	PULL BOX, 725.08, 18"	
	7	13	6	1	3	1	31			625	32000	31	EACH	GROUND ROD	
	1			1	1		3			625	34001	3	EACH	POWER SERVICE, AS PER PLAN	14
							LUMP			625	38000	LUMP		HIGH VOLTAGE TEST	
														ALTERNATE BID	
										625	10500	28	EACH	LIGHT POLE, MISC.: POST TOP, DECORATIVE, ANCHOR BASE, 12' POLE	14
														(HOLOPHANE)-ALTERNATE BID	
										625	27600	28	EACH	LUMINAIRE, MISC.: DECORATIVE, 100 W HPS, 120 VOLT, ACORN TYPE	14
														(HOLOPHANE)-ALTERNATE BID	
														FOR ROADWAY AND TRAFFIC CONTROL QUANTITIES, SEE SHEET 10	

CALCULATED KAE
CHECKED SG

LIGHTING GENERAL SUMMARY

CLA-235-3.92

DATES PLAIN

REFERENCE NO.	LOCATION	SIDE	CIRCUIT NODES * = MATCH LINE	625							603	625							
				LUMINAIRE, MISC.: DECORATIVE, 100 W HPS, 120 VOLT, ACORN TYPE	LIGHT POLE, MISC.: POST TOP,DECORATIVE, ANCHOR BASE, 12' POLE	LIGHT POLE FOUNDATION, 24" X 6' DEEP	NO. 10 AWG POLE AND BRACKET CABLE	CONNECTOR KIT, TYPE II	GROUND ROD		4" CONDUIT, TYPE E	CABLE SPLICING KIT	PULL BOX, 725.08, 18"		CONDUIT, 3", 725.04	TRENCH, 24" DEEP	TRENCH IN PAVED AREAS, TYPE A	NO. 2 AWG 5000 VOLT DISTRIBUTION CABLE		POWER SERVICE, AS PER PLAN
	FROM - TO			EACH	EACH	EACH	FT	EACH	EACH		FT	EACH	EACH		FT	FT	FT	FT		EACH
1	MAINLINE SR 235																			
2	SHEET 21																			
3	STA. 35+76	RT	PS-A						1											1
4	STA. 35+76 TO STA. 35+76	RT	PS-A TO PBAA1												3	3		39		
5	STA. 35+76	RT	PBAA1								20	3	1							
6	STA. 35+76 TO STA. 36+52	RT	PBAA1 TO PBAA2												77	14	63	261		
7	STA. 36+52	RT	PBAA2								20	3	1							
8																				
9	STA. 36+52 TO STA. 36+52	RT/LT	PBAA2 TO PBAA3												48	4	44	174		
10	STA. 36+52	LT	PBAA3								20	3	1							
11	STA. 36+52 TO STA. 36+55	LT	PBAA3 TO AA-18												3	3		39		
12	STA. 36+55	LT	AA-18	1	1	1	28	2	1											
13	STA. 36+55 TO STA. 37+30	LT	AA-18 TO AA-17												76	76		258		
14	STA. 37+30	LT	AA-17	1	1	1	28	2	1											
15	STA. 37+30 TO STA. 38+00	LT	AA-17 TO AA-16												70	51	19	240		
16	STA. 38+00	LT	AA-16	1	1	1	28	2	1											
17																				
18	STA. 36+52 TO STA. 36+55	RT	PBAA2 TO AA-13												3	3		39		
19	STA. 36+55	RT	AA-13	1	1	1	28	2	1											
20	STA. 36+55 TO STA. 37+30	RT	AA-13 TO AA-12												75	75		255		
21	STA. 37+30	RT	AA-12	1	1	1	28	2	1											
22	STA. 37+30 TO STA. 38+00	RT	AA-12 TO AA-11												70	70		240		
23	STA. 38+00	RT	AA-11	1	1	1	28	2	1											
24																				
25																				
26																				
27																				
28																				
29																				
30																				
31																				
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43																				
44																				
45																				
46																				
47																				
48																				
49																				
50																				
51																				
52	TOTAL SHEET 21 (CARRIED TO SHEET 15)			6	6	6	168	12	7		60	9	3		425	299	126	1545		1
53																				
54																				

CALCULATED KAE
CHECKED SG

LIGHTING SUBSUMMARY

CLA-235-3.92

01/03/2005
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REFERENCE NO.	LOCATION	SIDE	CIRCUIT NODES * = MATCH LINE	625 LUMINAIRE, MISC.: DECORATIVE, 100 W HPS, 120 VOLT, ACORN TYPE	625 LIGHT POLE, MISC.: POST TOP, DECORATIVE, ANCHOR BASE, 12' POLE	625 LIGHT POLE FOUNDATION, 24" X 6' DEEP	625 NO. 10 AWG POLE AND BRACKET CABLE	625 CONNECTOR KIT, TYPE II	625 GROUND ROD		603 4" CONDUIT, TYPE E	625 CABLE SPLICING KIT	625 PULL BOX, 725.08, 18"		625 CONDUIT, 3", 725.04	625 TRENCH, 24" DEEP	625 TRENCH IN PAVED AREAS, TYPE A	625 NO. 2 AWG 5000 VOLT DISTRIBUTION CABLE		625 POWER SERVICE, AS PER PLAN
	FROM - TO			EACH	EACH	EACH	FT	EACH	EACH		FT	EACH	EACH		FT	FT	FT	FT		EACH
1	MAINLINE SR 235																			
2	SHEET 22																			
3	STA. 38+00 TO STA. 38+80	LT	* TO AA-15												80	56	24	270		
4	STA. 38+80	LT	AA-15	1	1	1	28	2	1											
5	STA. 38+80 TO STA. 39+54	LT	AA-15 TO AA-14												74	74		252		
6	STA. 39+54	LT	AA-14	1	1	1	28	2	1											
7																				
8	STA. 38+00 TO STA. 38+80	RT	* TO AA-10												80	65	15	270		
9	STA. 38+80	RT	AA-10	1	1	1	28	2	1											
10	STA. 38+80 TO STA. 39+54	RT	AA-10 TO AA-9												74	74		252		
11	STA. 39+54	RT	AA-9	1	1	1	28	2	1											
12	STA.39+54 TO STA.58+81(SR571)	RT	AA-9 TO AA-8												34	19	15	132		
13																				
14	STA. 40+51	LT	BA-6	1	1	1	28	2	1											
15	STA. 40+51 TO STA. 41+26	LT	BA-6 TO BA-7												75	75		255		
16	STA. 41+26	LT	BA-7	1	1	1	28	2	1											
17	STA. 41+26 TO STA. 42+00	LT	BA-7 TO *												74	74		237		
18																				
19	STA. 40+51	RT	BA-1	1	1	1	28	2	1											
20	STA. 40+51 TO STA. 41+26	RT	BA-1 TO BA-2												75	75		255		
21	STA. 41+26	RT	BA-2	1	1	1	28	2	1											
22	STA. 41+26 TO STA. 42+00	RT	BA-2 TO *												74	74		237		
23																				
24	SR 571																			
25	STA. 57+50 TO STA. 57+80	LT	* TO CA-1												30	30		105		
26	STA. 57+80	LT	CA-1	1	1	1	28	2	1											
27																				
28	STA. 57+50 TO STA. 57+80	RT	* TO CA-5												30	30		105		
29	STA. 57+80	RT	CA-5	1	1	1	28	2	1											
30																				
31	STA. 58+81	LT	AA-3	1	1	1	28	2	1											
32	STA. 58+81 TO STA. 59+40	LT	AA-3 TO AA-4												59	59		207		
33	STA. 59+40	LT	AA-4	1	1	1	28	2	1											
34	STA. 59+40 TO STA. 59+43	LT	AA-4 TO PBAA5												3	3		39		
35	STA. 59+43	LT	PBAA5								20	3	1							
36	STA. 59+43 TO STA. 59+43	LT/RT	PBAA5 TO PBAA4												47	4	43	171		
37																				
38	STA. 59+43 TO STA. 59+50	LT	PBAA5 TO *												7	7		36		
39																				
40	STA. 58+81	RT	AA-8	1	1	1	28	2	1											
41	STA. 58+81 TO STA. 59+43	RT	AA-8 TO PBAA4												62	62		216		
42	STA. 59+43	RT	PBAA4								20	3	1							
43	STA. 59+43 TO STA. 59+50	RT	PBAA4 TO *												7	7		36		
44																				
45																				
46																				
47																				
48																				
49																				
50																				
51																				
52	TOTAL SHEET 22 (CARRIED TO SHEET 15)			13	13	13	364	26	13		40	6	2		885	788	97	3075		
53																				
54																				

CALCULATED KAE
CHECKED SG

LIGHTING SUBSUMMARY

CLA-235-3.92

01/03/2005
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REFERENCE NO.	LOCATION	SIDE	CIRCUIT NODES * = MATCH LINE	625							603	625							
				LUMINAIRE, MISC.: DECORATIVE, 100 W HPS, 120 VOLT, ACORN TYPE	LIGHT POLE, MISC.: POST TOP, DECORATIVE, ANCHOR BASE, 12' POLE	LIGHT POLE FOUNDATION, 24" X 6' DEEP	NO. 10 AWG POLE AND BRACKET CABLE	CONNECTOR KIT, TYPE II	GROUND ROD		4" CONDUIT, TYPE E	CABLE SPLICING KIT	PULL BOX, 725.08, 18"		CONDUIT, 3", 725.04	TRENCH, 24" DEEP	TRENCH IN PAVED AREAS, TYPE A	NO. 2 AWG 5000 VOLT DISTRIBUTION CABLE		POWER SERVICE, AS PER PLAN
	FROM - TO			EACH	EACH	EACH	FT	EACH	EACH		FT	EACH	EACH		FT	FT	FT	FT		EACH
1	MAINLINE SR 235																			
2	SHEET 24																			
3	STA. 42+00 TO STA. 42+01	LT	* TO BA-8												1	1		18		
4	STA. 42+01	LT	BA-8	1	1	1	28	2	1											
5	STA. 42+01 TO STA. 42+76	LT	BA-8 TO BA-9												75	75		255		
6	STA. 42+76	LT	BA-9	1	1	1	28	2	1											
7	STA. 42+76 TO STA. 43+47	LT	BA-9 TO BA-10												71	71		243		
8	STA. 43+47	LT	BA-10	1	1	1	28	2	1											
9	STA. 43+47 TO STA. 43+50	LT	BA-10 TO PBBA4												3	3		39		
10	STA. 43+50	LT	PBBA4								20	3	1							
11	STA. 43+50 TO STA. 44+36	LT	PBBA4 TO PBBA3												87	24	63	291		
12	STA. 44+36	LT	PBBA3								20	3	1							
13	STA. 44+36 TO STA. 46+00	LT	PBBA3 TO *												164	140	24	507		
14																				
15	STA. 42+00 TO STA. 42+01	RT	* TO BA-3												1	1		18		
16	STA. 42+01	RT	BA-3	1	1	1	28	2	1											
17	STA. 42+01 TO STA. 42+76	RT	BA-3 TO BA-4												75	75		255		
18	STA. 42+76	RT	BA-4	1	1	1	28	2	1											
19	STA. 42+76 TO STA. 43+47	RT	BA-4 TO BA-5												71	71		243		
20	STA. 43+47	RT	BA-5	1	1	1	28	2	1											
21	STA. 43+47 TO STA. 43+50	RT	BA-5 TO PBBA5												3	3		39		
22	STA. 43+50	RT	PBBA5								20	3	1							
23	STA. 43+50 TO STA. 43+50	RT/LT	PBBA5 TO PBBA4												48	4	44	174		
24																				
25																				
26																				
27																				
28																				
29																				
30																				
31																				
32																				
33																				
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45																				
46																				
47																				
48																				
49																				
50																				
51																				
52	TOTAL SHEET 24 (CARRIED TO SHEET 15)			6	6	6	168	12	6		60	9	3		599	468	131	2082		
53																				
54																				

CALCULATED KAE
CHECKED SG

LIGHTING SUBSUMMARY

CLA-235-3.92

01/03/2005
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REFERENCE NO.	LOCATION	SIDE	CIRCUIT NODES * = MATCH LINE	625							603	625							
				LUMINAIRE, MISC.: DECORATIVE, 100 W HPS, 120 VOLT, ACORN TYPE	LIGHT POLE, MISC.: POST TOP, DECORATIVE, ANCHOR BASE, 12' POLE	LIGHT POLE FOUNDATION, 24" X 6' DEEP	NO. 10 AWG POLE AND BRACKET CABLE	CONNECTOR KIT, TYPE II	GROUND ROD		4" CONDUIT, TYPE E	CABLE SPLICING KIT	PULL BOX, 725.08, 18"		CONDUIT, 3", 725.04	TRENCH, 24" DEEP	TRENCH IN PAVED AREAS, TYPE A	NO. 2 AWG 5000 VOLT DISTRIBUTION CABLE		POWER SERVICE, AS PER PLAN
	FROM - TO			EACH	EACH	EACH	FT	EACH	EACH		FT	EACH	EACH		FT	FT	FT	FT		EACH
1	MAINLINE SR 235																			
2	SHEET 25																			
3	STA. 46+00 TO STA. 47+53	LT	* TO PBBA1												154	154		477		
4	STA. 47+53	LT	PBBA1								20	3	1							
5	STA. 47+53 TO STA. 47+56	LT	PBBA1 TO PS-B												3	3		39		
6	STA. 47+56	LT	PS-B						1											1
7																				
8	STA. 47+53	RT	PBBA2								20	3	1							
9	STA. 47+53 TO STA. 47+53	RT	PBBA2 TO PBBA1												45	4	41	165		
10																				
11	STA. 47+56 TO STA. 48+29	LT	PS-B TO PBBB1												75	24	51	255		
12	STA. 48+29	LT	PBBB1								20	3	1							
13	STA. 48+29 TO STA. 48+40	LT	PBBB1 TO PBBB2												11	11		63		
14	STA. 48+40	LT	PBBB2								20	3	1							
15	STA. 48+40 TO STA. 48+40	LT/RT	PBBB2 TO PBBB3												46	4	42	168		
16	STA. 48+40	RT	PBBB3								20	3	1							
17																				
18																				
19																				
20																				
21																				
22																				
23																				
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44																				
45																				
46																				
47																				
48																				
49																				
50																				
51																				
52	TOTAL SHEET 25 (CARRIED TO SHEET 15)								1		100	15	5		334	200	134	1167		1
53																				
54																				

CALCULATED KAE
CHECKED SG

LIGHTING SUBSUMMARY

CLA-235-3.92

01/03/2005
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REFERENCE NO.	LOCATION	SIDE	CIRCUIT NODES * = MATCH LINE	625							603	625								
				LUMINAIRE, MISC.: DECORATIVE, 100 W HPS, 120 VOLT, ACORN TYPE	LIGHT POLE, MISC.: POST TOP,DECORATIVE, ANCHOR BASE, 12' POLE	LIGHT POLE FOUNDATION, 24" X 6' DEEP	NO. 10 AWG POLE AND BRACKET CABLE	CONNECTOR KIT, TYPE II	GROUND ROD		4" CONDUIT, TYPE E	CABLE SPLICING KIT	PULL BOX, 725.08, 18"		CONDUIT, 3", 725.04	TRENCH, 24" DEEP	TRENCH IN PAVED AREAS, TYPE A	NO. 2 AWG 5000 VOLT DISTRIBUTION CABLE		POWER SERVICE, AS PER PLAN
	FROM - TO			EACH	EACH	EACH	FT	EACH	EACH		FT	EACH	EACH		FT	FT	FT	FT		EACH
1	SR 571																			
2	SHEET 26																			
3	STA. 56+49	LT	PBCA2								20	3	1							
4	STA. 56+49 TO STA. 56+95	LT	PBCA2 TO CA-2												46	28	18	168		
5	STA. 56+95	LT	CA-2	1	1	1	28	2	1											
6	STA. 56+95 TO STA. 57+50	LT	CA-2 TO *												55	55		180		
7																				
8																				
9																				
10																				
11																				
12	STA. 56+49	RT	PBCA1								20	3	1							
13																				
14	STA. 56+49 TO STA. 56+49	RT/LT	PBCA1 TO PBCA2												50	4	46	180		
15																				
16	STA. 56+49 TO STA. 56+52	RT	PBCA1 TO PS-C												16	3	13	78		
17	STA. 56+52	RT	PS-C						1											1
18																				
19	STA. 56+49 TO STA. 56+95	RT	PBCA1 TO CA-6												47	30	17	171		
20	STA. 56+95	RT	CA-6	1	1	1	28	2	1											
21	STA. 56+95 TO STA. 57+50	RT	CA-6 TO *												55	55		180		
22																				
23																				
24																				
25																				
26																				
27																				
28	TOTAL SHEET 26 (CARRIED TO SHEET 15)			2	2	2	56	4	3		40	6	2		269	175	94	957		1
29																				
30	SHEET 27																			
31	STA. 59+50 TO STA. 59+61	RT	* TO AA-7												11	11		48		
32	STA. 59+61	RT	AA-7	1	1	1	28	2	1											
33																				
34																				
35																				
36																				
37																				
38																				
39																				
40																				
41																				
42																				
43																				
44	TOTAL SHEET 27 (CARRIED TO SHEET 15)			1	1	1	28	2	1						11	11		48		
45																				
46																				
47																				
48																				
49																				
50																				
51																				
52																				
53																				
54																				

CALCULATED KAE
CHECKED SG

LIGHTING SUBSUMMARY

CLA-235-3.92

01/03/2005
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POWER SERVICE DATA

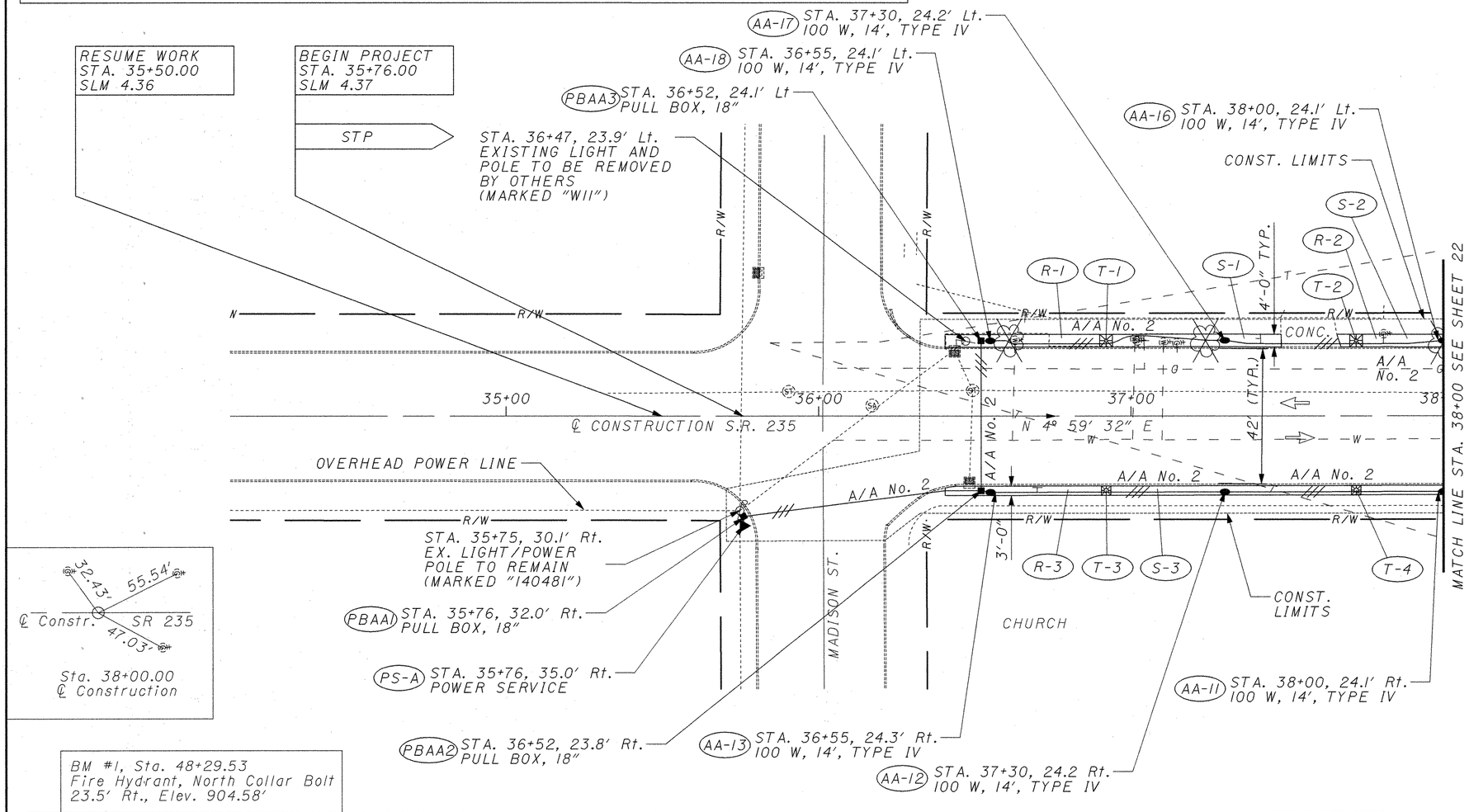
POWER SERVICE	LINE VOLTAGE (VOLTS)*	CONNECTED LOAD (KVA)	SERVICE ENTRANCE CABLE (AWG)	ENCLOSURE RATING (AMPS)	CIRCUIT NO. *	CIRCUIT LOAD (AMPS) **	CIRCUIT FUSE SIZE (AMPS)	CIRCUIT CABLE SIZE (AWG)	MAINTAINING AGENCY
PS-A	120/240	1.8	4/0	200	A	14.9	60	2	CITY OF NEW CARLISLE

* POWER SERVICE IS 120/240 V. LIGHTING CIRCUIT FOR 120 V LUMINAIRES USES AN ALTERNATE WIRING SCHEME. FOR ADDITIONAL INFORMATION, SEE LIGHTING GENERAL NOTES AND STD DWGS.

** CIRCUIT LOAD IS BASED ON ALTERNATE POLE WIRING SCHEME.

NOTES:

1. ALL PROPOSED LUMINAIRES ARE HPS, UNLESS OTHERWISE NOTED.
2. ALL STATIONING IS TO ℄ S.R. 235, UNLESS OTHERWISE NOTED.



BM #1, Sta. 48+29.53
Fire Hydrant, North Collar Bolt
23.5' Rt., Elev. 904.58'

LEGEND

ϕ	EXISTING LIGHT POLE	———	DISTRIBUTION CABLE IN TRENCH	----	DISTRIBUTION CABLE IN TRENCH (FUTURE BY OTHERS)
ϕ	EXISTING LIGHT AND POWER POLE	A/A No. 2	INDICATES POWER SERVICE/CIRCUIT, SIZE & NO. OF SINGLE CONDUCTORS IN CABLE OR CONDUIT		INDICATES NO. OF SINGLE CONDUCTORS IN CABLE OR CONDUIT (FUTURE BY OTHERS)
•	LUMINAIRE, STATION, OFFSET WATTAGE, MOUNTING HT, IES	■ PBAA1	PULL BOX, IDENTIFICATION NO. W/ OFFSET & SIZE	(AA-1)	POLE IDENTIFICATION NO. (FUTURE BY OTHERS)
(AA-1)	POLE IDENTIFICATION NO.				
▲	PROPOSED POWER SERVICE				
(PS-A)	POWER SERVICE IDENTIFICATION NO.				

REF NO.	STATION FROM	STATION TO	SIDE	202 WALK REMOVED SQ FT	608 WALKWAY MISC.: BRICK PAVERS SQ FT	690 SPECIAL-MISC.: 3X3 TREE GRATE EACH	690 SPECIAL-MISC.: 4X4 TREE GRATE EACH
R-1	36+73.79	37+02.34	LT	116			
R-2	37+65.90	38+00.00	LT	134			
R-3	36+40.50	38+00.00	RT	478			
S-1	36+40.50	37+48.08	LT		430		1
S-2	37+65.90	38+00.00	LT		134		1
S-3	36+40.50	38+00.00	RT		478		
T-1	36+92.00	36+92.00	LT			1	
T-2	37+72.00	37+72.00	LT			1	
T-3	36+92.00	36+92.00	RT			1	
T-4	37+72.00	37+72.00	RT			2	2
TOTALS CARRIED TO GENERAL SUMMARY				728	1042	2	2

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0 10 20 40
HORIZONTAL SCALE IN FEET

CALCULATED KAE
CHECKED SG

LIGHTING PLAN
S.R. 235 (MAIN STREET)

CLA-235-3.92

01/03/2005
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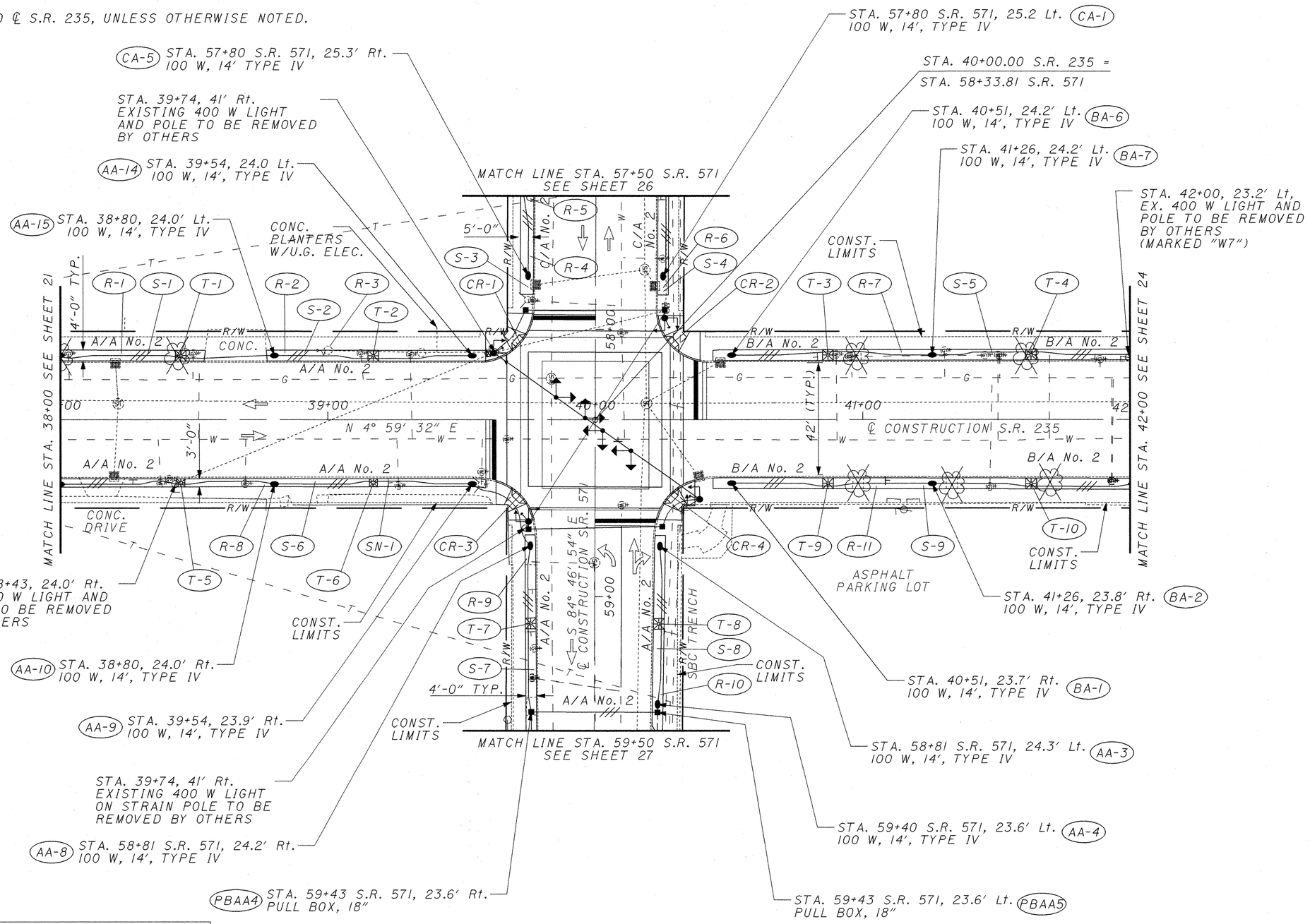
NOTES:

1. FOR LIGHTING PLAN LEGEND, SEE SHEET 21.
2. ALL PROPOSED LUMINAIRES ARE HPS, UNLESS OTHERWISE NOTED.
3. FOR TRAFFIC SIGNAL PLAN AND INTERSECTION PAVEMENT MARKINGS, SEE SHEET 12 & 13.
4. FOR HANDICAP CURB RAMP DETAILS, SEE SHEETS 6-9. CURB RAMP STATIONING IS TO ℄ OF RAMP.
5. FOR ROADWAY AND REMOVAL QUANTITIES, SEE SUBSUMMARY ON SHEET 23.
6. ALL STATIONING IS TO ℄ S.R. 235, UNLESS OTHERWISE NOTED.



BM #1, Sta. 48+29.53
Fire Hydrant, North Collar Bolt
23.5' Rt., Elev. 904.58'

01/03/2005
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HORIZONTAL SCALE IN FEET 0 10 20 40

CALCULATED KAE
CHECKED SG

LIGHTING PLAN
S.R. 235 (MAIN STREET)

CLA-235-3.92

REF NO.	STATION FROM	STATION TO	SIDE	202 WALK REMOVED	202 REMOVAL, MISC.: FLAGPOLE	202 REMOVAL, MISC.: CONCRETE PLANTERS		608 CURB RAMP, APP	608 WALKWAY MISC.: BRICK PAVERS		630 GROUND MOUNTED SUPPORT, NO.2 POST	630 REMOVAL OF GRD MTD SIGN AND REERECTION	630 REMOVAL OF GRD MTD POST SUPPORT AND DISPOSAL		690 SPECIAL-MISC.: 3X3 TREE GRATE	690 SPECIAL-MISC.: 4X4 TREE GRATE
				SQ FT	EACH	LUMP		SQ FT	SQ FT		FT	EACH	EACH		EACH	EACH
R-1	38+00.00	38+54.25	LT	216												
R-2	38+77.01	39+59.00	LT	327												
R-3	38+97.58	39+60.18	LT		1	LUMP										
R-4	57+87.00(SR571)	57+50.00(SR571)	LT	148												
R-5	57+50.67(SR571)	57+50.67(SR571)	LT										1			
R-6	57+87.00(SR571)	57+50.00(SR571)	LT	148												
R-7	40+44.00	42+00.00	LT	624												
R-8	38+00.00	39+59.00	RT	477												
R-9	58+77.00(SR571)	59+50.00(SR571)	RT	74												
R-10	58+77.00(SR571)	59+50.00(SR571)	RT	291												
R-11	40+44.00	42+00.00	RT	624												
CR-1	39+71.98	39+71.98	LT	185				185								
CR-2	40+28.01	40+28.01	LT	163				163								
CR-3	39+71.98	39+71.98	RT	120				120								
CR-4	40+27.76	40+27.76	RT	128				128								
SN-1	39+22.63	39+22.63	RT								11.5	1	1			
S-1	38+00.00	38+54.25	LT						216							
S-2	38+77.01	39+59.00	LT						327							
S-3	57+87.00(SR571)	57+50.00(SR571)	RT						185							
S-4	57+87.00(SR571)	57+50.00(SR571)	LT						148							
S-5	40+44.00	42+00.00	LT						624							
S-6	38+00.00	39+59.00	RT						477							
S-7	58+77.00(SR571)	59+50.00(SR571)	RT						218							
S-8	58+77.00(SR571)	59+50.00(SR571)	LT						291							
S-9	40+44.00	42+00.00	RT						624							
T-1	38+45.00	38+45.00	LT													1
T-2	39+17.00	39+17.00	LT													1
T-3	40+87.00	40+87.00	LT													1
T-4	41+63.00	41+63.00	LT													1
T-5	38+45.00	38+45.00	RT												1	
T-6	39+17.00	39+17.00	RT												1	
T-7	59+10.00(SR571)	59+10.00(SR571)	RT													1
T-8	59+10.00(SR571)	59+10.00(SR571)	LT													1
T-9	40+87.00	40+87.00	RT													1
T-10	41+63.00	41+63.00	RT													1
TOTALS CARRIED TO GENERAL SUMMARY				3525	1	LUMP		596	3110		11.5	1	2		2	8

NOTES:

1. SEE PLAN SHEET 22 FOR CORRESPONDING REFERENCE NUMBER ITEMS.
2. ALL STATIONING IS TO ℄ S.R. 235, UNLESS OTHERWISE NOTED.

CALCULATED KAE
CHECKED SG

LIGHTING PLAN
S.R. 235 (MAIN STREET)

CLA-235-3.92

01/03/2005
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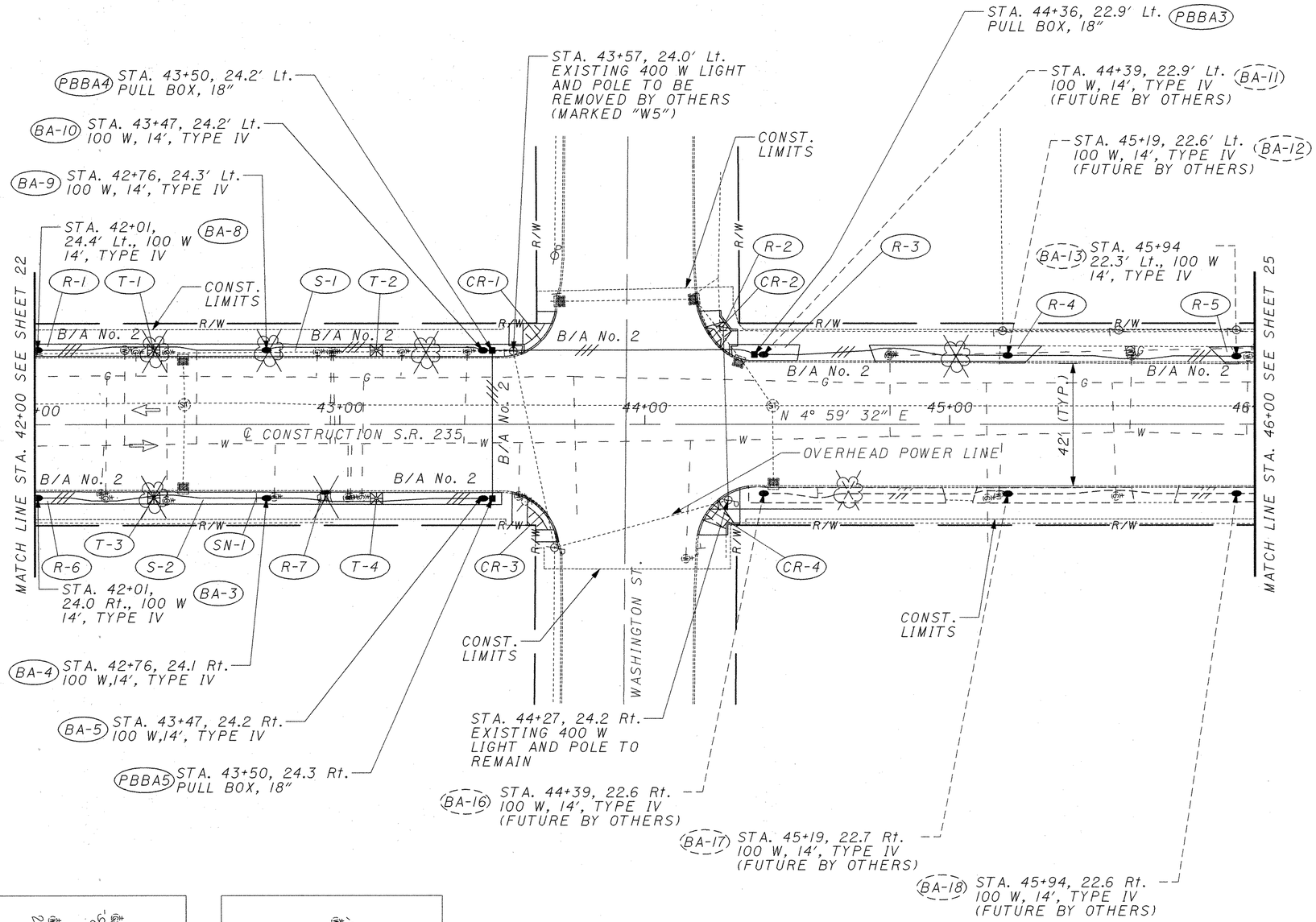
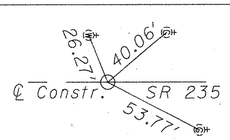
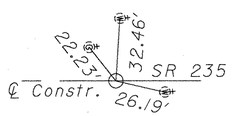
NOTES:

1. FOR LIGHTING PLAN LEGEND, SEE SHEET 21.
2. ALL PROPOSED LUMINAIRES ARE HPS, UNLESS OTHERWISE NOTED.
3. FOR HANDICAP RAMP DETAILS, SEE SHEETS 6-9. CURB RAMP STATIONING IS TO ℄ OF RAMP.
4. ALL STATIONING TO ℄ S.R. 235, UNLESS OTHERWISE NOTED.





Sta. 41+00.00
℄ Construction



Sta. 48+00.00
℄ Construction

BM #1, Sta. 48+29.53
Fire Hydrant, North Collar Bolt
23.5' Rt., Elev. 904.58'

REF NO.	STATION FROM	STATION TO	SIDE	202 WALK REMOVED SQ FT	202 REMOVAL MISC.: POST EACH	608 CURB RAMP, APP EACH
R-1	42+00.00	43+59.60	LT	634		
R-2	44+25.73	44+25.73	LT		1	
R-3	44+28.68	44+50.84	LT	110		
R-4	45+16.33	45+30.16	LT	57		
R-5	45+85.04	45+94.76	LT	30		
R-6	42+00.00	43+53.00	RT	612		
R-7	42+94.03	42+94.03	RT		1	
CR-1	43+66.21	43+66.21	LT	120		120
CR-2	44+21.91	44+21.91	LT	106		106
CR-3	43+67.20	43+67.20	RT	137		137
CR-4	44+21.00	44+21.00	RT	136		136
TOTALS CARRIED TO GENERAL SUMMARY				1942	2	499

REF NO.	STATION FROM	STATION TO	SIDE	608 WALKWAY MISC.: BRICK PAVERS SQ FT	630 GROUND MOUNTED SUPPORT NO.2 POST FT	630 REMOVAL OF GRD MTD SIGN AND REERECTION EACH	630 REMOVAL OF GRD MTD POST SUPPORT AND DISPOSAL EACH	690 SPECIAL-MISC.: 4X4 TREE GRATE EACH
S-1	42+00.00	43+59.60	LT	634				
S-2	42+00.00	43+53.00	RT	612				
SN-1	42+72.63	42+72.63	RT		11.5	1	1	
T-1	42+39.00	42+39.00	LT					1
T-2	43+12.00	43+12.00	LT					1
T-3	42+39.00	42+39.00	RT					1
T-4	43+12.00	43+12.00	RT					1
TOTALS CARRIED TO GENERAL SUMMARY				1246	11.5	1	1	4

CALCULATED KAE
CHECKED SG

0 10 20 40
HORIZONTAL SCALE IN FEET

LIGHTING PLAN
S.R. 235 (MAIN STREET)

CLA-235-3.92

01/03/2005
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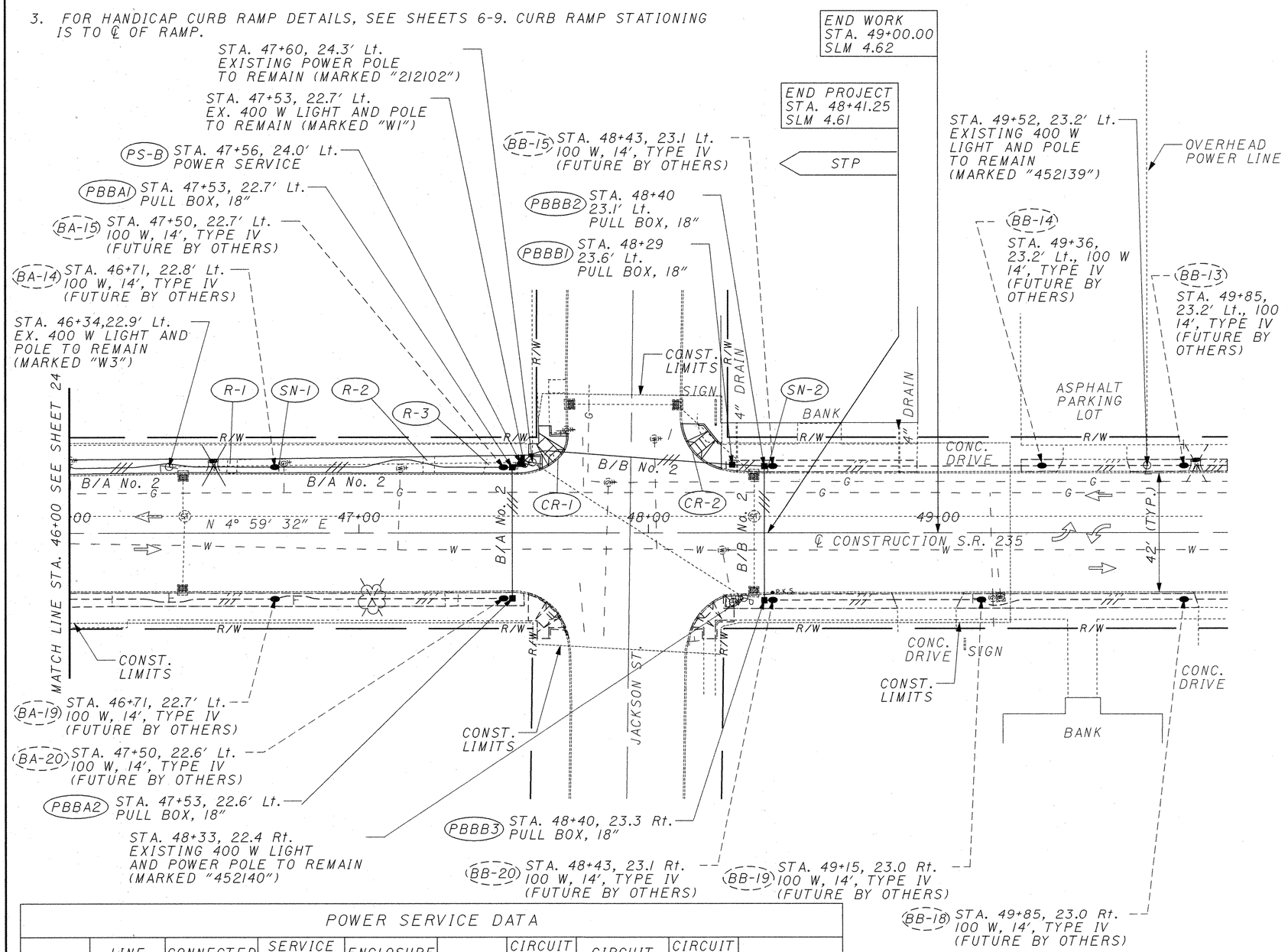
NOTES:

1. FOR LIGHTING PLAN LEGEND, SEE SHEET 21.
2. ALL PROPOSED LUMINAIRES ARE HPS, UNLESS OTHERWISE NOTED.
3. FOR HANDICAP CURB RAMP DETAILS, SEE SHEETS 6-9. CURB RAMP STATIONING IS TO ℄ OF RAMP.
4. ALL STATIONING IS TO THE ℄ S.R. 235, UNLESS OTHERWISE NOTED.



REF NO.	STATION FROM	STATION TO	SIDE	630 GROUND MOUNTED SUPPORT, NO.2 POST FT	630 REMOVAL OF GRD MTD SIGN AND REERECTION EACH	630 REMOVAL OF GRD MTD POST SUPPORT AND DISPOSAL EACH
SN-1	46+72.39	46+72.39	LT	12.5	1	1
SN-2	48+41.25	48+41.25	LT	11.5	1	1
TOTALS CARRIED TO GENERAL SUMMARY				24.0	2	2

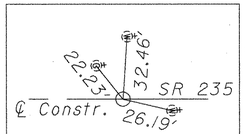
REF NO.	STATION FROM	STATION TO	SIDE	202 WALK REMOVED SQ FT	608 CURB RAMP, APP SQ FT
R-1	46+54.44	46+57.87	LT	16	
R-2	47+22.21	47+26.16	LT	22	
R-3	47+43.04	47+54.80	LT	68	
CR-1	47+68.82	47+68.82	LT	119	119
CR-2	48+15.31	48+15.31	LT	134	134
TOTALS CARRIED TO GENERAL SUMMARY				359	253

POWER SERVICE DATA

POWER SERVICE	LINE VOLTAGE (VOLTS)*	CONNECTED LOAD (KVA)	SERVICE ENTRANCE CABLE (AWG)	ENCLOSURE RATING (AMPS)	CIRCUIT NO. *	CIRCUIT LOAD (AMPS) **	CIRCUIT FUSE SIZE (AMPS)	CIRCUIT CABLE SIZE (AWG)	MAINTAINING AGENCY
PS-B	120/240	4.0	4/0	200	A	16.5	60	2	CITY OF NEW CARLISLE
					B	16.5	60	2	

* POWER SERVICE IS 120/240 V. LIGHTING CIRCUIT FOR 120 V LUMINAIRES USES AN ALTERNATE WIRING SCHEME. FOR ADDITIONAL INFORMATION, SEE LIGHTING GENERAL NOTES AND STD DWGS.

** CIRCUIT LOAD IS BASED ON ALTERNATE POLE WIRING SCHEME.



BM #1, Sta. 48+29.53
Fire Hydrant, North Collar Bolt
23.5′ Rt., Elev. 904.58′

BM #2, Sta. 52+52.74
Fire Hydrant, Top of South
Collar Bolt,
23.0′ Rt., Elev. 907.24′

N

0 10 20 40
HORIZONTAL SCALE IN FEET

CALCULATED KAE
CHECKED SG

LIGHTING PLAN
S.R. 235 (MAIN STREET)

CLA-235-3.92

01/03/2005
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NOTES:

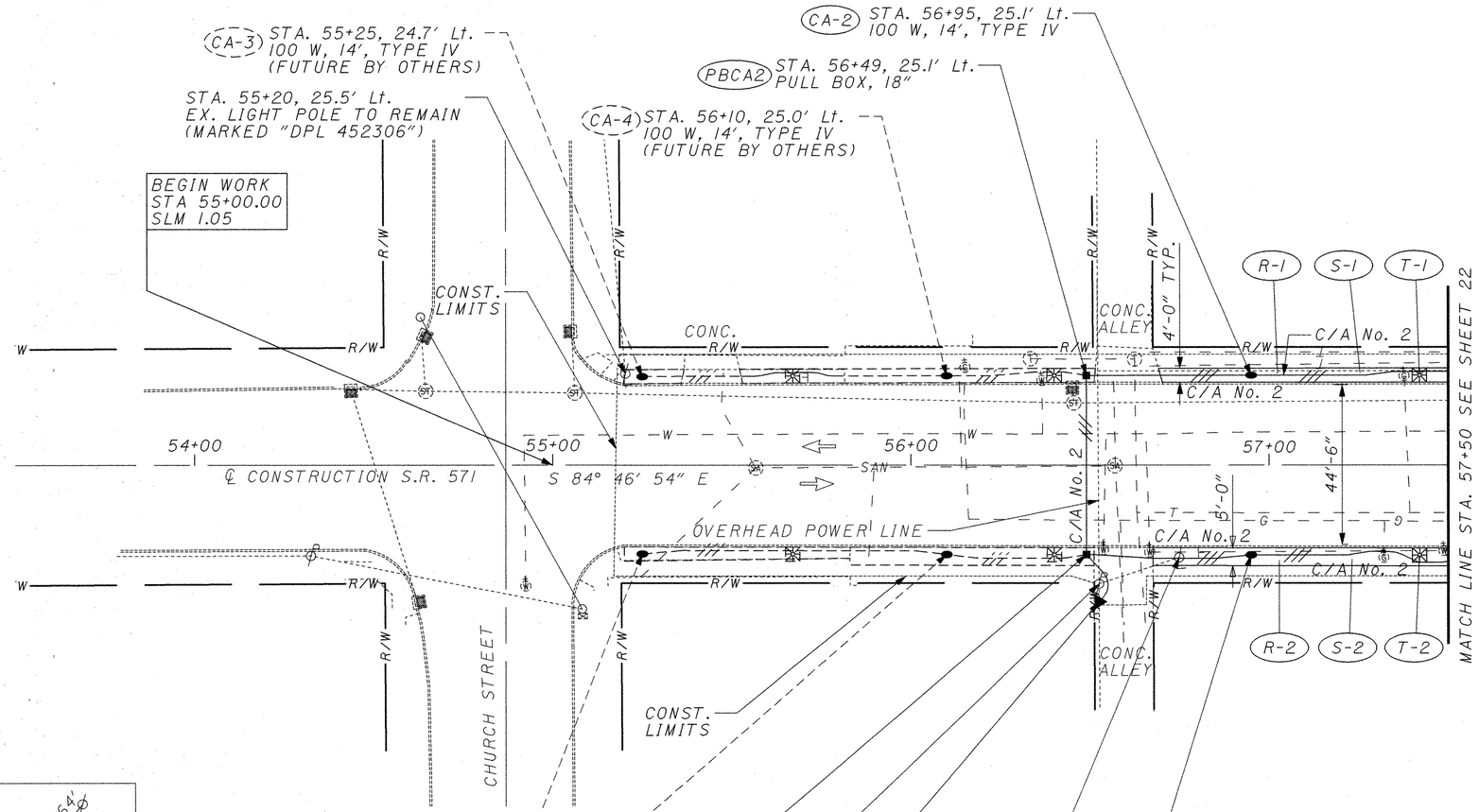
1. FOR LIGHTING PLAN LEGEND, SEE SHEET 21.
2. ALL PROPOSED LUMINAIRES ARE HPS, UNLESS OTHERWISE NOTED.
3. ALL STATIONING IS TO ℄ S.R. 571, UNLESS OTHERWISE NOTED.

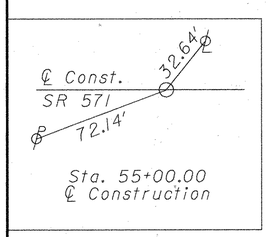
POWER SERVICE DATA

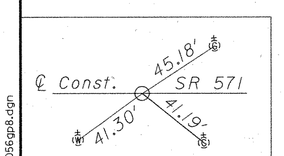
POWER SERVICE	LINE VOLTAGE (VOLTS)*	CONNECTED LOAD (KVA)	SERVICE ENTRANCE CABLE (AWG)	ENCLOSURE RATING (AMPS)	CIRCUIT NO. *	CIRCUIT LOAD (AMPS) **	CIRCUIT FUSE SIZE (AMPS)	CIRCUIT CABLE SIZE (AWG)	MAINTAINING AGENCY
PS-C	120/240	0.8	4/0	200	A	6.6	60	2	CITY OF NEW CARLISLE

* POWER SERVICE IS 120/240 V. LIGHTING CIRCUIT FOR 120 V LUMINAIRES USES AN ALTERNATE WIRING SCHEME. FOR ADDITIONAL INFORMATION, SEE LIGHTING GENERAL NOTES AND STD DWGS.

** CIRCUIT LOAD IS BASED ON ALTERNATE POLE WIRING SCHEME.







BM #1, Sta. 48+29.53
Fire Hydrant, North Collar Bolt
23.5' Rt., Elev. 904.58'

REF NO.	STATION FROM	STATION TO	SIDE	202 WALK REMOVED SQ FT	608 WALKWAY, MISC.: BRICK PAVERS SQ FT	690 SPECIAL-MISC.: 4X4 TREE GRATE EACH
R-1	56+69.11	57+50.00	LT	321		
R-2	56+67.58	57+50.00	RT	412		
S-1	56+69.11	57+50.00	LT		321	1
S-2	56+67.58	57+50.00	RT		412	1
T-1	57+42.00	57+42.00	LT			
T-2	57+42.00	57+42.00	RT			
TOTALS CARRIED TO GENERAL SUMMARY				733	733	2

HORIZONTAL SCALE IN FEET 0 10 20 40

CALCULATED KAE CHECKED SG

LIGHTING PLAN
S.R. 571 (JEFFERSON STREET)

CLA-235-3.92

01/03/2005
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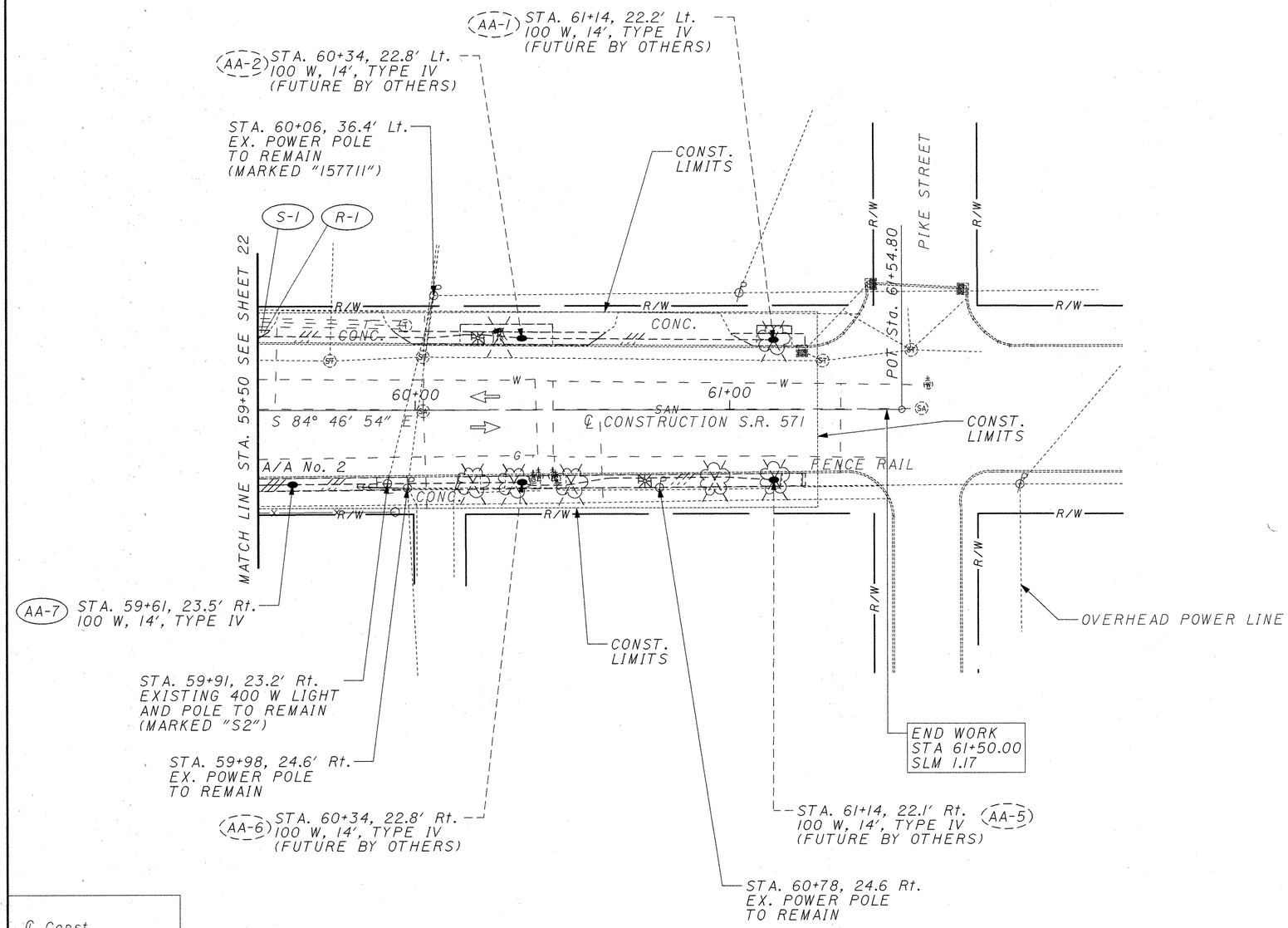
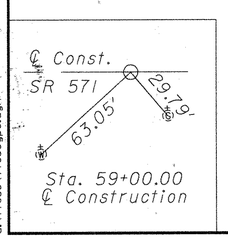
NOTES:

1. FOR LIGHTING PLAN LEGEND, SEE SHEET 21.
2. ALL PROPOSED LUMINAIRES ARE HPS, UNLESS OTHERWISE NOTED.
3. ALL STATIONING IS TO ℄ S.R. 571, UNLESS OTHERWISE NOTED.





BM #1, Sta. 48+29.53
Fire Hydrant, North Collar Bolt
23.5' Rt., Elev. 904.58'

REF NO.	STATION FROM	STATION TO	SIDE	202 WALK REMOVED SQ FT	608 WALKWAY, MISC.: BRICK PAVERS SQ FT
R-1	59+50.00	59+53.87	LT	6	
S-1	59+50.00	59+53.87	LT		6
TOTALS CARRIED TO GENERAL SUMMARY				6	6

HORIZONTAL SCALE IN FEET 0 10 20 40

CALCULATED KAE
CHECKED SG

LIGHTING PLAN
S.R. 571 (JEFFERSON STREET)

CLA-235-3.92

01/03/2005
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