

GENERAL

UTILITIES

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

MEDINA CO. SANITARY ENGINEER
791 WEST SMITH ROAD
MEDINA, OHIO 44256
330-764-8331
ATTN: JEREMY SINKO
jsinko@medinaco.org

OHIO EDISON COMPANY
6326 LAKE AVENUE
ELYRIA, OHIO 44035
440-326-3207
ATTN: JEFF HALL
halljb@firstenergycorp.com

ARMSTRONG UTILITIES
1141 LAFAYETTE ROAD
MEDINA, OHIO 44256
330-802-5991
ATTN: MARK LOYER
mloyer@agoc.com

FRONTIER
6223 NORWALK ROAD
MEDINA, OHIO 44256
330-722-9586
ATTN: RANDY HOWARD
j.howard@ftr.com

COLUMBIA GAS OF OHIO
7080 FRY ROAD
MIDDLEBURG HEIGHTS, OHIO 44130
440-891-2493
ATTN: TOM JADLOS
tjadlos@nisource.com

ASPIRE ENERGY
300 TRACY BRIDGE RD
ORRVILLE, OH 44667
330-682-1642
ATTN: ANTHONY D'EGIDIO
adegidio@chpk.com

MEDINA COUNTY FIBER NETWORK
144 NORTH BROADWAY ST.
MEDINA, OHIO 44256
216-832-7059
ATTN: DAVE CORRADO
dcorrado@fibercounty.com

CITY OF MEDINA
132 NORTH ELMWOOD STREET
MEDINA, OHIO 44256
330-722-9034
ATTN: PATRICK PATTON
ppatton@medinaoh.org

EVERSTREAM
1228 EUCLID AVENUE, SUITE 250
CLEVELAND, OHIO 44115
216-581-7972
ATTN: JIM BYRNE
jbyrne@everstream.net

CHARTER COMMUNICATIONS
8150 DOW CIRCLE
STRONGSVILLE, OHIO 44136
216-392-7963
ATTN: GARY NAUMANN

MCI METRO
1150 WEST 3RD STREET
CLEVELAND, OHIO 44256
330-819-1444
ATTN: JEFF KADUSKY
thomas.kadusky@verizon.com

THE UNDERGROUND UTILITIES ON THIS PLAN HAVE BEEN LOCATED BY USING A SUBSURFACE UTILITY ENGINEERING COMPANY [SUE]. IF THERE ARE ANY DISCREPANCIES BETWEEN FIELD MARKINGS AND WHAT THE PLAN INDICATES, PLEASE CONTACT JOHN SCHAFRATH OF ODOT DISTRICT 3 PROJECT UTILITY COORDINATOR 419-207-7115, PRIOR TO ANY SUBSURFACE WORK BEING INITIATED.

UTILITY COORDINATION

AS INDICATED IN THE PROJECT UTILITY 4A NOTE, PROPOSED UTILITY RELOCATION BY OTHERS ARE LOCATED WITHIN THE WORK AREA. THE CONTRACTOR SHALL USE CAUTION WHEN WORKING IN THE VICINITY OF EXISTING UTILITIES TO REMAIN AND PROPOSED RELOCATED UTILITIES BY OTHERS.

CONSTRUCTION NOISE

ACTIVITIES AND LAND USE ADJACENT TO THIS PROJECT MAY BE AFFECTED BY CONSTRUCTION NOISE. IN ORDER TO MINIMIZE ANY ADVERSE CONSTRUCTION NOISE IMPACTS, DO NOT OPERATE POWER-OPERATED CONSTRUCTION-TYPE DEVICES BETWEEN THE HOURS OF 8 P.M. AND 6 A.M. EXCEPT AS NOTED ON MAINTENANCE OF TRAFFIC SHEETS 56 - 63. IN ADDITION, DO NOT OPERATE AT ANY TIME ANY DEVICE IN SUCH A MANNER THAT THE NOISE CREATED SUBSTANTIALLY EXCEEDS THE NOISE CUSTOMARILY AND NECESSARILY ATTENDANT TO THE REASONABLE AND EFFICIENT PERFORMANCE OF SUCH EQUIPMENT.

ROUNDING

THE ROUNDING AT SLOPE BREAKPOINTS SHOWN ON THE TYPICAL SECTIONS APPLIES TO ALL CROSS-SECTIONS EVEN THOUGH OTHERWISE SHOWN.

AIRWAY/HIGHWAY CLEARANCE FOR AIRPORTS AND HELIPORTS

THIS PROJECT HAS BEEN IDENTIFIED AS BEING WITHIN THE INFLUENCE AREA OF A BOTH PUBLIC AND PRIVATE USE AIRPORTS OR HELIPORTS. NO TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT AT MAXIMUM OPERATING HEIGHT SHALL EXCEED A HEIGHT OF 50 FT. IF ANY TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT WILL EXCEED THIS HEIGHT, FURTHER COORDINATION WILL BE NECESSARY.

FOR PUBLIC USE AIRPORT AND HELIPORT, COORDINATE WITH THE FEDERAL AVIATION ADMINISTRATION (FAA) AND ODOT OFFICE OF AVIATION, WILL BE NECESSARY PRIOR TO ERECTING SUCH TEMPORARY STRUCTURES OR OPERATING SUCH EQUIPMENT ON THE PROJECT. THE CONTRACTOR WILL BE REQUIRED TO SUBMIT FORM 7460-1 TO THE FAA. NOTIFY THE ODOT OFFICE OF AVIATION WHEN SUBMITTING FAA FORM 7460-1.

NO TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT SHALL EXCEED THE PERMISSIBLE HEIGHT, UNTIL A COPY OF THE FAA APPROVAL AND ODOT OFFICE OF AVIATION PERMIT HAS BEEN FURNISHED TO THE PROJECT ENGINEER.

EXPRESS PROCESSING CENTER
THE FEDERAL AVIATION ADMINISTRATION
SOUTHWEST REGIONAL OFFICE
AIR TRAFFIC AIRSPACE BRANCH ASW-520
2601 MEACHAN BLVD.
FORT WORTH, TX 76137-4298

OHIO DEPARTMENT OF TRANSPORTATION
OFFICE OF AVIATION
2829 WEST DUBLIN-GRANVILLE ROAD
COLUMBUS, OHIO 43235
614-387-2346

FOR PRIVATE USE AIRPORTS OR HELIPORTS, COORDINATE WITH THE AIRPORT OWNER AND THE ODOT OFFICE OF AVIATION. 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.

MEDINA HOSPITAL (CLEVELAND CLINIC) HELIPORT
970 E. WASHINGTON ST.
MEDINA, OH 44256

SUMMA HEALTH CENTER AT LAKE MEDINA HELIPORT
3780 MEDINA RD.
MEDINA, OH 44256

WORK LIMITS

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

MONUMENT ASSEMBLIES

CONSTRUCT MONUMENT ASSEMBLIES IN ACCORDANCE WITH THE DETAILS SHOWN ON THE STANDARD CONSTRUCTION DRAWINGS AND AT THE LOCATIONS SHOWN ON THE RIGHT OF WAY PLANS.

THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM 623 - MONUMENT ASSEMBLY	31 EACH
ITEM 623 - REFERENCE MONUMENT	2 EACH
ITEM 623 - RIGHT-OF-WAY MONUMENT	192 EACH

SURVEYING PARAMETERS

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS. SEE SHEETS 15-16 OF THE PLANS FOR A TABLE CONTAINING PROJECT CONTROL INFORMATION.

USE THE FOLLOWING PROJECT CONTROL, VERTICAL POSITIONING, AND HORIZONTAL POSITIONING PARAMETERS FOR ALL SURVEYING: PROJECT CONTROL

HORIZONTAL DATUM NOTE:

HORIZONTAL COORDINATES LISTED WITHIN THE PLANS ARE BASED ON OHIO STATE PLANE COORDINATES SYSTEM, NORTH ZONE, NAD 83(2011) OBSERVED ON THE TYPE A CONCRETE MONUMENT PAIRS SET AT EITHER END OF THE PROJECT, CP100, CP100A, CP102 AND CP102A. ALL OTHER COORDINATES LISTED WITHIN THE PLANS ARE BASED ON A TRAVERSE CONDUCTED BETWEEN THE CONCRETE MONUMENT PAIRS AND THE SUBSEQUENT ADJUSTMENT. FURTHER, ALL MONUMENTATION FOUND AND USED WAS LOCATED UTILIZING THE PROJECT CONTROL BY CONVENTIONAL SURVEY METHODS. WHEN UTILIZING GPS, A SITE CALIBRATION MUST BE CONDUCTED BASED ON THE PLAN COORDINATES OF THE PROVIDED CONTROL POINTS.

VERTICAL DATUM NOTE:

ELEVATIONS LISTED WITHIN THE PLANS ARE BASED ON ODOT MONUMENT MO856, WHICH HAS AN ELEVATION OF 1052.622.* BENCH RUNS, ORIGINATING FROM MO856, WERE CONDUCTED TO ESTABLISH ELEVATIONS FOR CONTROL.* WHEN UTILIZING GPS, A SITE CALIBRATION MUST BE CONDUCTED BASED ON THE PLANS ELEVATIONS OF THE PROVIDED CONTROL POINTS AND BENCHMARKS.

PRIVATE PARKING SPACES

A MAXIMUM OF 30 DAYS WILL BE GIVEN FOR PAVEMENT REPAIRS THAT RESULT IN DISTURBANCE TO PRIVATE PARKING SPACES.

PROTECTION OF RIGHT-OF-WAY LANDSCAPING

PRIOR TO BEGINNING WORK, THE CONTRACTOR, THE PROJECT ENGINEER, AND A REPRESENTATIVE OF THE MAINTAINING AGENCY WILL REVIEW AND RECORD ALL LANDSCAPING ITEMS WITHIN THE RIGHT-OF-WAY (BOTH WITHIN AND OUTSIDE THE CONSTRUCTION LIMITS) A RECORD OF THIS REVIEW WILL BE KEPT IN THE PROJECT ENGINEER'S FILES. PRIOR TO FINAL ACCEPTANCE, A FINAL REVIEW OF LANDSCAPING ITEMS WILL BE MADE.

CONSTRUCT ALL ACTIVITIES, EQUIPMENT STORAGE, AND STAGING TO WITHIN THE CONSTRUCTION LIMITS. UNLESS OTHERWISE IDENTIFIED IN THE PLANS OR PROPOSAL, THE CONSTRUCTION LIMITS ARE IDENTIFIED AS 30 FEET FROM THE EDGE OF PAVEMENT.

SUBMIT A WRITTEN REQUEST TO THE PROJECT ENGINEER TO USE ANY AREA OUTSIDE THESE LIMITS. THE DOCUMENT SUBMITTED MUST CLEARLY IDENTIFY THE AREA AND EXPLAIN THE PROPOSED USE AND RESTORATION OF THE AREA. EXCEPT AS INDICATED ON SHEETS 337-342, USE OF THESE AREAS FOR DISPOSAL OF WASTE MATERIAL AND CONSTRUCTION DEBRIS, EXCAVATION OF BORROW MATERIAL AND PLACEMENT OF POTABLE PLANTS IS PROHIBITED. THE REQUEST MUST BE APPROVED, IN WRITING, BEFORE THE CONTRACTOR HAS PERMISSION TO USE THE AREA.

ANY ITEMS DAMAGED BEYOND THE CONSTRUCTION LIMITS, AS DEFINED ABOVE, WILL BE REPLACED IN KIND OR AS APPROVED BY THE PROJECT ENGINEER.

CLEARING AND GRUBBING

THE CONTRACTOR IS ADVISED THAT MANY TREES MARKED FOR REMOVAL HAVE BEEN COMPLETELY REMOVED OR REMOVED WITH STUMPS LEFT BY OTHERS IN PREPARATION FOR THE PROJECT. REMOVE ALL TREES AND STUMPS THAT REMAIN THAT ARE SPECIFICALLY MARKED FOR REMOVAL AS WELL AS ANY WITHIN WOODED AREAS WITHIN THE CONSTRUCTION LIMITS UNDER THE LUMP SUM BID FOR ITEM 201, CLEARING AND GRUBBING. THE CONTRACTOR IS ADVISED TO REVIEW THE EXISTING SITE CONDITIONS TO ESTIMATE THE AMOUNT OF TREE AND STUMP REMOVAL INCLUDED WITH THE CLEARING AND GRUBBING.

MEDINA COUNTY BUILDING PERMITS

ANY PERMITS REQUIRED TO CONSTRUCT THIS PROJECT IN ITS ENTIRETY MUST BE OBTAINED FROM THE MEDINA COUNTY BUILDING DEPARTMENT BY THE CONTRACTOR PRIOR TO ANY WORK BEING PERFORMED.

BENCHING OF FOUNDATION SLOPES

ALTHOUGH CROSS-SECTIONS INDICATE SPECIFIC DIMENSIONS FOR PROPOSED BENCHING OF THE EMBANKMENT FOUNDATIONS IN CERTAIN AREAS, NO WAIVER OF THE SPECIFICATIONS IS INTENDED. BENCH ALL OTHER SLOPED EMBANKMENT AREAS AS SET FORTH IN 203.05. NO ADDITIONAL PAYMENT WILL BE MADE FOR BENCHING REQUIRED UNDER THE PROVISIONS OF 203.05.

CALCULATED
ATR
CHECKED
CWL

GENERAL NOTES

MED - 18 - 12.99

NO.	DESCRIPTION	REV. BY	DATE
6	REVISED CLEARING & GRUBBING NOTE	TMT	1-13-2021

QUANTITIES CARRIED TO GENERAL NOTES SUBSUMMARY ON SHEET 55

35
1085

MAINTENANCE OF TRAFFIC SIGNAL/FLASHER INSTALLATION

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRAFFIC SIGNAL/FLASHER INSTALLATIONS WITHIN THE PROJECT UNDER THE FOLLOWING CONDITIONS:

- EXISTING SIGNAL/FLASHER INSTALLATIONS WHICH THE PLANS REQUIRE THE CONTRACTOR TO ADJUST, MODIFY, ADD ONTO OR REMOVE, OR WHICH THE CONTRACTOR ACTUALLY ADJUSTS, MODIFIES OR OTHERWISE DISTURBS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ENTIRE INSTALLATION (AT AN INTERSECTION) FROM THE TIME HIS OPERATIONS FIRST DISTURB THE INSTALLATION UNTIL THE INSTALLATION HAS BEEN SUBSEQUENTLY REMOVED OR MODIFIED AND THE WORK IS ACCEPTED.
- NEW OR REUSED SIGNAL/FLASHER INSTALLATIONS OR DEVICES, INSTALLED BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF THESE FROM THE TIME OF INSTALLATION UNTIL THE WORK IS ACCEPTED.

THE CONTRACTOR SHALL CORRECT AS QUICKLY AS POSSIBLE ALL OUTAGES OR MALFUNCTIONS. HE SHALL PROVIDE THE MAINTAINING AGENCY AND THE ENGINEER SUCH ADDRESSES AND PHONE NUMBERS WHERE HIS MAINTENANCE FORCES CAN BE CONTACTED. THE CONTRACTOR SHALL PROVIDE ONE OR MORE PERSONS TO RECEIVE ALL CALLS AND DISPATCH THE NECESSARY MAINTENANCE FORCES TO CORRECT OUTAGES. SUCH A PERSON OR PERSONS MAY BE USED TO PERFORM OTHER DUTIES AS LONG AS PROMPT ATTENTION IS GIVEN TO THESE CALLS AND A PERSON IS READILY AVAILABLE CONTINUOUSLY 24 HOURS A DAY, 7 DAYS A WEEK. ALL LAMP OUTAGES, CABLE OUTAGES, ELECTRICAL FAILURES, EQUIPMENT MALFUNCTIONS AND MISALIGNED SIGNAL HEADS SHALL BE CORRECTED TO THE SATISFACTION OF THE ENGINEER WITH THE SIGNAL BACK TO SERVICE WITHIN FOUR HOURS AFTER THE CONTRACTOR HAS BEEN NOTIFIED OF THE OUTAGE.

IN THE EVENT NEW SIGNALS ARE DAMAGED PRIOR TO ACCEPTANCE, ALL DAMAGED EQUIPMENT EXCEPT POLES AND CONTROL EQUIPMENT SHALL BE REPLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER WITH THE SIGNAL BACK IN SERVICE WITHIN 8 HOURS AFTER THE CONTRACTOR'S NOTIFICATION OF THE OUTAGE. THE CONTRACTOR SHALL ARRANGE FOR FULL TRAFFIC CONTROL UNTIL THE SIGNAL IS BACK IN OPERATION.

IF POLES AND/OR CONTROL EQUIPMENT ARE DAMAGED AND MUST BE REPLACED, THE CONTRACTOR SHALL MAKE TEMPORARY REPAIRS AS NECESSARY TO BRING THE SIGNAL BACK INTO FULL OPERATION WITHIN THE ALLOWED 8-HOUR PERIOD, AND SHALL MAKE PERMANENT REPAIRS OR REPLACEMENT AS SOON THEREAFTER AS POSSIBLE.

NONE OF THE ABOVE SHALL BE CONSTRUED AS COLLECTIVE OR CONSECUTIVE OUTAGE TIME PERIODS AT ANY ONE LOCATION. THAT IS, WHERE MORE THAN ONE OUTAGE OCCURS AT ANY ONE LOCATION THEN THE ALLOTTED TIME LIMIT SHALL BE FOR THE WORST SINGLE OUTAGE.

WHERE OUTAGES ARE THE DIRECT RESULT OF A VEHICLE ACCIDENT THE RESPONSE OF THE CONTRACTOR SHALL BE AS OUTLINED ABOVE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COLLECTION OF ANY COMPENSATION FOR THIS WORK FROM THOSE PARTIES RESPONSIBLE FOR THE DAMAGE.

WHERE THE CONTRACTOR HAS FAILED TO, OR CANNOT RESPOND TO, AN OUTAGE OR SIGNAL EQUIPMENT MALFUNCTION, AT THESE LOCATIONS WITHIN HIS RESPONSIBILITY, WITHIN PERIODS AS SPECIFIED ABOVE, THE ENGINEER MAY INVOKE THE PROVISIONS OF SECTION 105.15 AND ANY SUBSEQUENT BILLINGS TO THE STATE OR THE CITY OF MEDINA FOR POLICE SERVICES AND MAINTENANCE SERVICES BY STATE OR CITY FORCES SHALL BE DEDUCTED FROM MONIES DUE OR TO BECOME DUE THE CONTRACTOR IN ACCORDANCE WITH PROVISIONS OF SECTION 105.15.

THE CONTRACTOR SHALL PROVIDE THE MAINTENANCE SERVICE ENTIRELY WITH HIS FORCES OR HE MAY CHOOSE TO ENTER INTO A COOPERATIVE UNDERSTANDING WITH THE LOCAL MAINTAINING AGENCY TO PROVIDE THE MAINTENANCE. THE CONTRACTOR SHALL INFORM THE ENGINEER, IN WRITING, OF THE MAINTENANCE METHOD SELECTED.

MAINTENANCE OF TRAFFIC SIGNAL/FLASHER INSTALLATION (CONTINUED)

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO ANY TRAFFIC SIGNAL COMPONENTS REQUIRED TO BE HANDLED DURING THE RELOCATION OF POLES AND REVISIONS TO THE SIGNAL SYSTEM. WHEN A TRAFFIC SIGNAL MUST BE TAKEN OUT OF SERVICE BY THE CONTRACTOR, DUE TO CONSTRUCTION PROCEDURES, THIS OUTAGE SHALL NOT EXCEED 4 HOURS AND SHALL NOT INCLUDE THE HOURS OF 6-9 AM TO 4-7 PM. ANY SIGNALIZED INTERSECTION, WHERE THE SIGNAL IS OUT OF SERVICE DUE TO CONSTRUCTION PROCEDURES, OR DUE TO AN OUTAGE OR MALFUNCTION OF EQUIPMENT AS DESCRIBED ABOVE, SHALL BE PROTECTED, BY THE CONTRACTOR, BY THE INSTALLATION OF TEMPORARY "STOP" SIGNS, EXCEPT FOR THE FOLLOWING INTERSECTIONS WHICH SHALL BE PROTECTED BY OFF-DUTY CITY OF MEDINA POLICE, HIRED BY THE CONTRACTOR:

- S.R. 18/W. HOSPITAL DRIVEWAY/WOODLAND DRIVE
- S.R. 18/E. HOSPITAL DRIVEWAY
- S.R. 18/FOOTE ROAD
- S.R. 18/SUMMA HEALTHCARE DRIVEWAY
- S.R. 18/VILLAGE GATE DRIVE/BUEHLER DRIVE
- S.R. 18/SHADY BROOKE LANE/RIVER STYX ROAD
- SMITH ROAD/RIVER STYX ROAD
- S.R. 18/FRONTAGE ROAD

ANY VEHICULAR TRAFFIC SIGNAL HEAD, EITHER NEW OR EXISTING WHICH WILL BE OUT OF OPERATION SHALL BE COVERED IN THE MANNER DESCRIBED IN 632.25.

THE CONTRACTOR SHALL MAINTAIN COMPLETE RECORDS OF MALFUNCTIONS INCLUDING:

- TIME OF NOTIFICATION OF MALFUNCTION;
- TIME OF WORK CREWS ARRIVAL TO CORRECT THE MALFUNCTION;
- ACTIONS TAKEN TO CORRECT THE MALFUNCTION, INCLUDING A LIST OF PARTS REPAIRED OR REPLACED;
- A DIAGNOSIS OF REASON FOR THE MALFUNCTION AND PROBABILITY OF REOCCURRENCE;
- TIME OF COMPLETION OF THE REPAIR AND SYSTEM RESTORED TO FULL SERVICE.

A COPY OF THESE RECORDS SHALL BE PROVIDED TO THE ENGINEER WITHIN THREE (3) WORKING DAYS FOLLOWING COMPLETION OF EACH REPAIR.

ALL COSTS RESULTING FROM THE ABOVE REQUIREMENTS SHALL BE CONSIDERED TO BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 614, MAINTAINING TRAFFIC

SIGNAL MODIFICATIONS

THE CONTRACTOR SHALL ADJUST THE LOCATIONS OF THE EXISTING, TEMPORARY, OR PROPOSED SIGNAL HEADS, AND THE TIMINGS AND DETECTION ZONES FOR EACH PHASE OF CONSTRUCTION IN ACCORDANCE WITH THE OMTCD, AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL ENSURE THAT ALL MINIMUM/MAXIMUM SIGNAL HEAD TO PAVEMENT CLEARANCES ARE MAINTAINED AT ALL TIMES, AND SHALL FIRST BE APPROVED BY THE ENGINEER. NO REDUCTION IN CLEARANCES SHALL BE PERMITTED.

THE COST FOR ALL LABOR, EQUIPMENT, TOOLS, AND MATERIALS REQUIRED TO COMPLETE THE ABOVE DESCRIBED WORK SHALL BE INCIDENTAL TO THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLANS.

ITEM SPECIAL - WORK ZONE TRAFFIC SIGNAL

THE COST FOR ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, AND INCIDENTALS NECESSARY TO PROVIDE, MAINTAIN, AND SUBSEQUENTLY REMOVE WORK ZONE TRAFFIC SIGNALS SHALL BE INCLUDED IN THE UNIT PRICE FOR EACH ITEM SPECIAL, WORK ZONE TRAFFIC SIGNAL. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM SPECIAL, WORK ZONE TRAFFIC SIGNAL 7 EACH

ITEM 615 - PAVEMENT FOR MAINTAINING TRAFFIC. CLASS B

IN ADDITION TO THE REQUIREMENTS OF ODOT CMS 615.05, THE TEMPORARY PAVEMENT SHALL REMAIN IN PLACE AND BE ALLOWED TO WINTER-OVER IN ITS EXISTING LOCATION.

ITEM 615 - ROADS FOR MAINTAINING TRAFFIC. AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF ODOT CMS 615, THIS ITEM SHALL INCLUDE RESTORATION OF ALL SURFACES AND SIGNS DISTURBED BY THE PLACEMENT AND REMOVAL OF PAVEMENT FOR MAINTAINING TRAFFIC OUTSIDE OF THE PROJECT LIMITS, INCLUDING BUT NOT LIMITED TO, THE REPLACEMENT OF CURB AND GUTTER AND PAVEMENT ON E. HOSPITAL DRIVEWAY, FOOTE ROAD, SHADY BROOKE LANE, AND RESTORATION OF SHOULDERS AT THE WEST END OF SR 18.

ALTHOUGH ESTIMATES FOR TEMPORARY EXCAVATION, EMBANKMENT, AND TEMPORARY DRAINAGE FACILITIES, INCLUDING THE REMOVAL OF THE TEMPORARY DRAINAGE FACILITIES AND SEALING THE OPENINGS LEFT IN THE WALLS OF THE PROPOSED CATCH BASINS THAT ARE TO REMAIN IN PLACE, MAY BE SHOWN ON THE PLAN DETAILS, THESE ITEMS SHALL BE CONSIDERED INCIDENTAL TO, AND INCLUDED WITH PAYMENT FOR, ITEM 615, ROADS FOR MAINTAINING TRAFFIC, AS PER PLAN. THE FOLLOWING ESTIMATED QUANTITIES FOR TEMPORARY DRAINAGE ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY:

ITEM 611, CATCH BASIN, NO. 3A	<u>12</u>	EACH
ITEM 611, CATCH BASIN, NO. 2-2B	<u>3</u>	EACH
ITEM 611, 12" CONDUIT, TYPE B	<u>295</u>	FT
ITEM 611, 12" CONDUIT, TYPE C	<u>41</u>	FT
ITEM 611, 15" CONDUIT, TYPE B	<u>27</u>	FT
ITEM 611, 24" CONDUIT, TYPE B	<u>166</u>	FT

THE 6" TEMPORARY ASPHALT CURB SHALL BE INCLUDED IN THE LUMP SUM PAY ITEM.

THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM 615, ROADS FOR MAINTAINING TRAFFIC, AS PER PLAN LS

TRENCH FOR WIDENING

TRENCH EXCAVATION FOR BASE WIDENING SHALL BE ONLY ON ONE SIDE OF THE PAVEMENT AT A TIME. THE OPEN TRENCH SHALL BE ADEQUATELY MAINTAINED AND PROTECTED WITH DRUMS OR BARRICADES AT ALL TIMES. PLACEMENT OF PROPOSED SUBBASE AND BASE MATERIAL SHALL FOLLOW AS CLOSELY AS POSSIBLE BEHIND EXCAVATION OPERATIONS. THE LENGTH OF WIDENING TRENCH WHICH IS OPEN AT ANY ONE TIME SHALL BE HELD TO A MINIMUM AND SHALL AT ALL TIMES BE SUBJECT TO APPROVAL OF THE ENGINEER.

OVERNIGHT TRENCH CLOSING

THE BASE WIDENING SHALL BE COMPLETED TO A DEPTH OF NO MORE THAN 3.25 INCHES BELOW THE EXISTING PAVEMENT BY THE END OF EACH WORK DAY. NO TRENCH SHALL BE LEFT OPEN OVERNIGHT EXCEPT FOR A SHORT LENGTH (25 FEET OR LESS) OF A WORK SECTION AT THE END OF THE TRENCH. IN CASE WORK MUST BE SUSPENDED BECAUSE OF INCLEMENT WEATHER OR OTHER REASONS, THE TRENCH FOR THE UNCOMPLETED BASE WIDENING SHALL BE BACKFILLED AT THE DIRECTION OF THE ENGINEER.

TEMPORARY PLATING DURING CONSTRUCTION

ANY EXISTING OR PROPOSED INLET, MANHOLE OR OTHER UTILITY THAT MUST BE TEMPORARILY COVERED DURING CONSTRUCTION FOR THE MAINTENANCE OF TRAFFIC SHALL BE PROTECTED WITH STEEL PLATES DURING CONSTRUCTION. THE INLET OR CASTING TOP SHALL BE REMOVED AND THE CONTRACTOR SHALL INSTALL STEEL PLATES AT THE SUBGRADE ELEVATION OR LOWER TO PROTECT THE STRUCTURE DURING PHASED CONSTRUCTION. THE INLET, MANHOLE OR OTHER UTILITY SHALL BE PROTECTED WITH A SECURED STEEL PLATE, BURIED AND PAVED OVER TO MAINTAIN TRAFFIC DURING CONSTRUCTION ACTIVITIES.

ANY COSTS ASSOCIATED WITH TEMPORARY PLATING DURING CONSTRUCTION, THE REPAIR OR PLUGGING OF DRAINAGE STRUCTURES DURING CONSTRUCTION, RISER INSTALLATION, CASTING ADJUSTMENTS, TEMPORARY MODIFICATIONS TO DRAINAGE STRUCTURES AND THE SUBSEQUENT RESTORATION OF THE STRUCTURE AND ADJACENT PAVEMENT AT THE COMPLETION OF CONSTRUCTION SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 615, PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B.

NO.	DESCRIPTION	REV. BY	DATE
6	NOTE REVISED	AKF	1/13/21

ITEM 614 - MAINTAINING TRAFFIC

THIS ITEM SHALL CONSIST OF MAINTENANCE OF TRAFFIC ON EXISTING ROADWAYS IN ACCORDANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, CURRENT EDITION, LATEST REVISION, THE SPECIFICATIONS AND THE FOLLOWING:

1. ALL FULL DEPTH PAVEMENT REMOVAL AND REPLACEMENT OPERATIONS ADJACENT TO MAINTAINED LANES SHALL BE COMPLETED THE SAME DAY THE EXCAVATION IS MADE. IF THE CONTRACTOR CANNOT COMPLETE THE WORK, THE EXCAVATION SHALL BE BACKFILLED OR PROTECTED AS PER CONDITION I OR II OF STANDARD CONSTRUCTION DRAWING MT-101.90. THE REQUIREMENTS OF THIS NOTE WILL BE WAIVED DURING THE CURE OF SUBGRADE STABILIZATION. ALL COSTS TO MEET THE REQUIREMENTS OF THIS NOTE ARE INCIDENTAL TO THE BID PRICE FOR ITEM 614 MAINTAINING TRAFFIC.

2. ONLY DURING OFF-PEAK PERIODS SHALL THE CONTRACTOR INSTALL AND SUBSEQUENTLY RESET ALL TRAFFIC CONTROL NECESSARY FOR THE WORK ZONE FOR EACH CONSTRUCTION PHASE.

3. PRIOR TO OPENING TRAFFIC, EACH LANE SHALL BE IN A SAFE, PASSABLE CONDITION. ALL TRANSVERSE JOINTS SHALL EXTEND ACROSS THE FULL LANE AND SHOULDER WIDTH AND EACH LANE SHALL BE FREE FROM UNEVEN LONGITUDINAL JOINTS. BECAUSE OF THE REQUIREMENT TO PLACE THE ASPHALT SURFACE COURSE OVER THE ENTIRE ROADWAY DURING PHASE 8, IT MAY BE NECESSARY FOR THE CONTRACTOR TO PROVIDE TEMPORARY RAMPING OF OBSTRUCTIONS IN THE PATH OF TRAFFIC SUCH AS MANHOLES, VALVES, AND CATCH BASINS. ASPHALT WEDGES SHALL ALSO BE PROVIDED FOR UNEVEN TRANSVERSE AND LONGITUDINAL JOINTS. SUFFICIENT TEMPORARY ASPHALT SHALL BE PLACED SO AS TO PROVIDE A SMOOTH TRANSITION FOR THE TRAVELING PUBLIC. PRIOR TO PLACING THE SURFACE COURSE, ALL TEMPORARY RAMPING AND WEDGE MATERIAL SHALL BE REMOVED IN A NEAT MANNER AND SHALL BE INCLUDED IN THE COST OF THIS ITEM. THE FOLLOWING QUANTITY IS INCLUDED IN THE MAINTENANCE OF TRAFFIC GENERAL SUMMARY:

ITEM 614, ASPHALT CONCRETE FOR MAINTAINING TRAFFIC 100 CY

4. THE FOLLOWING SIGNS SHALL BE PLACED AS DIRECTED BY THE ENGINEER IN ACCORDANCE WITH THE OMUTCD: W8-1 (BUMP) AND W8-11 (UNEVEN LANES).

5. ACCESS TO LAKE MEDINA PARK WILL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION ACTIVITIES EXCEPT FOR A PERIOD NOT TO EXCEED TWO (2) DAYS.

6. THE MEDINA COUNTY PARK DISTRICT WILL BE GIVEN 30 DAYS ADVANCE NOTICE OF A CLOSURE TO THE LAKE MEDINA PARK SR-18 ENTRANCE.

7. SIGNS WILL BE POSTED 14 DAYS IN ADVANCE AT THE LAKE MEDINA PARK SR-18 ENTRANCE NOTIFYING THE PUBLIC OF THE CLOSURE TO THE PARK ENTRANCE.

8. APPROPRIATE SIGNAGE WILL BE INSTALLED TO ALERT USERS OF CONSTRUCTION ACTIVITIES, IF IN PROXIMITY TO RECREATIONAL FACILITIES OR FEATURES.

9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT U.S. MAIL DELIVERY WITHIN THE PROJECT LIMITS IS NOT DISRUPTED BY CONSTRUCTION OPERATIONS. THIS RESPONSIBILITY IS LIMITED TO RELOCATION OF MAILBOXES TO A TEMPORARY LOCATION THAT WILL ALLOW THE COMPLETION OF THE WORK AND SHALL INCLUDE THE RESTORATION OF MAILBOXES TO THEIR ORIGINAL LOCATION OR APPROVED NEW LOCATION. ANY RELOCATION OF MAILBOX SERVICES MUST FIRST BE COORDINATED WITH THE U.S. POSTAL SERVICE AND AFFECTED PROPERTY OWNERS. THE COST OF THIS WORK SHALL BE INCLUDED IN ITEM 614 - MAINTAINING TRAFFIC.

10. THE CONTRACTOR SHALL MAINTAIN THE SCHOOL SIGNAL FLASHERS AND END SCHOOL SPEED LIMIT/END SCHOOL ZONE SIGNS ON S.R. 18 FOR THE FIRST BAPTIST CHURCH NEAR VICTOR DRIVE AT ALL TIMES DURING CONSTRUCTION UTILIZING EITHER EXISTING, PROPOSED, OR WORK ZONE SIGNS, AS DIRECTED BY THE ENGINEER. PAYMENT FOR ALL LABOR, EQUIPMENT, AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC.

ITEM 614 - MAINTAINING TRAFFIC (CONTINUED)

11. NOTICE OF CLOSURE SIGNS (W20-H13) SHALL BE ERECTED BY THE CONTRACTOR PRIOR TO THE SCHEDULED ROAD OR RAMP CLOSURE IN ACCORDANCE WITH THE NOTICE OF CLOSURE TIME TABLE BELOW. AT THE APPROVAL OF THE ENGINEER, PORTABLE CHANGEABLE MESSAGE SIGNS MAY BE USED IN LIEU OF THE STANDARD FLAT SHEET SIGN FOR CLOSURE DURATIONS OF LESS THAN 1 WEEK.

THE SIGNS SHALL BE ERECTED ON THE RIGHT-HAND SIDE OF THE ROAD FACING TRAFFIC. THEY SHALL BE PLACED SO AS NOT TO INTERFERE WITH THE VISIBILITY OF ANY OTHER TRAFFIC CONTROL SIGNS. ON ROADWAYS, THEY SHOULD BE ERECTED AT OR NEAR THE POINT OF CLOSURE.

NOTICE OF CLOSURE SIGN TIME TABLE	
DURATION OF CLOSURE	SIGN DISPLAYED TO PUBLIC
>= 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
> 12 HOURS & < 2 WEEKS	7 CALENDAR DAYS PRIOR TO CLOSURE
< 12 HOURS	2 BUSINESS DAYS PRIOR TO CLOSURE

THE SIGN SHALL DISPLAY THE DATE OF THE CLOSURE IN MMM-DD FORMAT AND THE NUMBER OF DAYS OF THE CLOSURE. THE LAST LINE OF THE W20-H13 SIGN LISTS A PHONE NUMBER WHICH A MOTORIST MAY CALL FOR ADDITIONAL INFORMATION. THIS IS TO BE A SPECIFIC OFFICE WITHIN THE DISTRICT RATHER THAN THE GENERAL SWITCHBOARD NUMBER.

12. THE CONTRACTOR SHALL INSTALL END ANCHOR ASSEMBLIES FOR THE INTERMEDIATE PHASING OF GUARDRAIL CONSTRUCTION. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614- MAINTAINING TRAFFIC.

13. NO WORK SHALL BE PERFORMED AND A MINIMUM OF ONE LANE OF TRAFFIC SHALL BE MAINTAINED IN EACH DIRECTION DURING THE FOLLOWING DESIGNATED HOLIDAYS OR EVENTS:

CHRISTMAS	THANKSGIVING
NEW YEARS	FOURTH OF JULY
MEMORIAL DAY	LABOR DAY

THE PERIOD OF TIME THAT THE LANES ARE TO BE OPEN DEPENDS ON THE DAY OF THE WEEK ON WHICH THE HOLIDAY OR EVENT FALLS. THE FOLLOWING SCHEDULE SHALL BE USED TO DETERMINE THIS PERIOD:

DAY OF HOLIDAY OR EVENT	TIME THAT ALL LANES MUST BE OPEN TO TRAFFIC
SUNDAY	12:00N FRIDAY THRU 6:00AM MONDAY
MONDAY	12:00N FRIDAY THRU 6:00AM TUESDAY
TUESDAY	12:00N MONDAY THRU 6:00AM WEDNESDAY
WEDNESDAY	12:00N TUESDAY THRU 6:00AM THURSDAY
THURSDAY	12:00N WEDNESDAY THRU 6:00AM FRIDAY
THURSDAY (Thanksgiving Only)	6:00AM WEDNESDAY THRU 6:00AM MONDAY
FRIDAY	12:00N THURSDAY THRU 6:00AM MONDAY
SATURDAY	12:00N FRIDAY THRU 6:00AM MONDAY

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE IN THE AMOUNT OF \$50 FOR EACH MINUTE THE ABOVE DESCRIBED LANE CLOSURE RESTRICTIONS ARE VIOLATED.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH C&MS 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614- MAINTAINING TRAFFIC.

WINTER-OVER PHASE ESTIMATE QUANTITIES

THE ESTIMATED ITEMS APPEARING BELOW HAVE BEEN PROVIDED FOR THE CONTRACTOR'S USE WHEN PLACING TRAFFIC INTO A WINTER-OVER PHASE AT THE CONCLUSION OF THE CONSTRUCTION SEASON AND AFTER THE COMPLETION OF MAJOR CONSTRUCTION PHASES.

COSTS ASSOCIATED WITH PLACING TRAFFIC INTO THE WINTER-OVER ZONE SHALL BE INCLUDED IN THE ITEMS LISTED BELOW AND WITH THE COST BID FOR ITEM 614 - MAINTAINING TRAFFIC.

AT THE CONCLUSION OF THE FIRST CONSTRUCTION SEASON (AFTER PHASE 4), THE CONTRACTOR SHALL PLACE S.R. 18 TRAFFIC INTO THE WINTER-OVER ZONE CONFIGURATION, AS SHOWN IN THE DETAILED PLANS, AND APPLY THE FOLLOWING WORK ZONE PAVEMENT MARKINGS QUANTITIES OUTSIDE OF WHAT IS SHOWN IN THE DETAILED MAINTENANCE OF TRAFFIC PLANS.

ITEM 614, WORK ZONE LANE LINE, 4"	1.90 MILE
ITEM 614, WORK ZONE CENTER LINE, CLASS I	1.34 MILE
ITEM 614, WORK ZONE EDGE LINE, CLASS I, 4"	1.10 MILE
ITEM 614, WORK ZONE CHANNELIZING LINE, CLASS I, 8"	2,880 FT
ITEM 614, WORK ZONE TRANSVERSE/DIAGONAL LINE, CLASS I	760 FT
ITEM 614, WORK ZONE STOP LINE, CLASS I	560 FT
ITEM 614, WORK ZONE CROSSWALK LINE, CLASS I	1117 FT
ITEM 614, WORK ZONE LANE ARROW, CLASS I	74 EACH
ITEM 614, WORK ZONE ISLAND MARKING, CLASS I	332 SF
ITEM 614, WORK ZONE DOTTED LINE	186 FT
ITEM 614, WORK ZONE WORD ON PAVEMENT, 72"	1 EACH

AFTER THE COMPLETION OF PHASE 8 AND FOR THE SURFACE COURSE PRIOR TO FINAL PAVEMENT MARKINGS, THE CONTRACTOR SHALL APPLY THE FOLLOWING WORK ZONE PAVEMENT MARKING QUANTITIES (THE FOLLOWING ARE THE PROPOSED TRAFFIC CONTROL QUANTITIES TIMES TWO APPLICATIONS):

ITEM 614, WORK ZONE LANE LINE, 4"	10.02 MILE
ITEM 614, WORK ZONE CENTER LINE, CLASS I	8.46 MILE
ITEM 614, WORK ZONE EDGE LINE, CLASS I, 4"	2.28 MILE
ITEM 614, WORK ZONE CHANNELIZING LINE, CLASS I, 8"	15,336 FT
ITEM 614, WORK ZONE TRANSVERSE/DIAGONAL LINE, CLASS I	3,772 FT
ITEM 614, WORK ZONE STOP LINE, CLASS I	2,712 FT
ITEM 614, WORK ZONE CROSSWALK LINE, CLASS I	6,072 FT
ITEM 614, WORK ZONE LANE ARROW, CLASS I	372 EACH
ITEM 614, WORK ZONE ISLAND MARKING, CLASS I	1,188 SF
ITEM 614, WORK ZONE SCHOOL SYMBOL MARKING, 120"	8 EACH
ITEM 614, WORK ZONE DOTTED LINE	5,004 FT
ITEM 614, WORK ZONE WORD ON PAVEMENT, 72"	2 EACH

ITEM 411 - STABILIZED CRUSHED AGGREGATE

THE CONTRACTOR SHALL FURNISH STABILIZED CRUSHED AGGREGATE IN ACCORDANCE WITH C&MS 411 AND AS DIRECTED BY THE ENGINEER. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE TEMPORARY PAVEMENT AGGREGATE SHOULDERS:

ITEM 411, STABILIZED CRUSHED AGGREGATE	260 CY
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NO.	DESCRIPTION	REV. BY	DATE
5	ADDED 411 NOTE	KRM	1/22/21
6	REVISED NOTE	TMT	2/3/21

SEEDING	NO.	DESCRIPTION	REV. BY	DATE
END WIDTH	6	REVISED CONDUIT SIZE	AKF	1/13/21

LEGEND

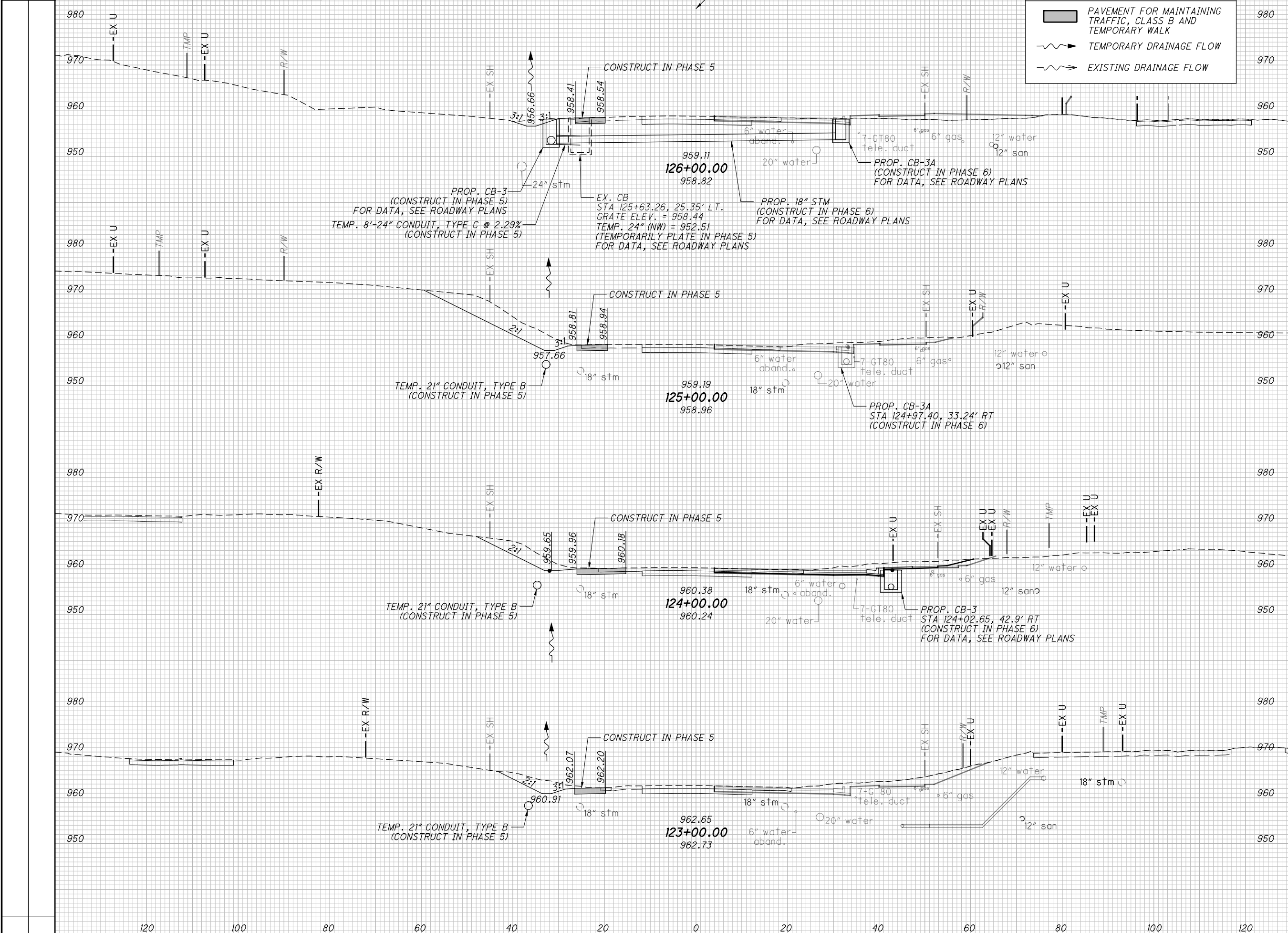
- PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B AND TEMPORARY WALK
- TEMPORARY DRAINAGE FLOW
- EXISTING DRAINAGE FLOW

END AREA	VOLUME	CALCULATED	CHECKED	LOB	
					CUT
6	0				
11	0				
0	0				
0	0				
5	0				
2.4	0				
6	0				
22	0				

MAINTENANCE OF TRAFFIC CROSS SECTIONS
S.R. 18 PHASE 6 - STA. 123+00 TO STA. 126+00

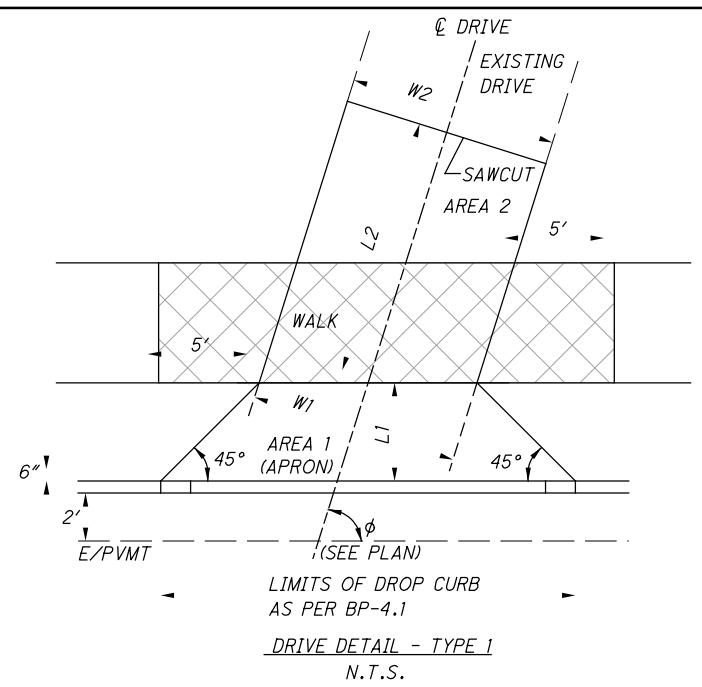
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1085



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EXISTING MATERIALS	USAGE	INSIDE LIMITS OF APRON (AREA 1)	OUTSIDE LIMITS OF APRON (AREA 2)
GRAVEL	RESIDENTIAL/FIELD		8" ITEM 304 AGGREGATE BASE
ASPHALT		6" ITEM 452 NON-REINFORCED CONCRETE PAVEMENT, CLASS QC MS 4" ITEM 304 AGGREGATE BASE	2" ITEM 441 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), (DRIVEWAYS) 6" ITEM 304 AGGREGATE BASE
CONCRETE			SAME COMPOSITION AS AREA 1
GRAVEL			10" ITEM 304 AGGREGATE BASE
ASPHALT	COMMERCIAL	8" ITEM 452 NON-REINFORCED CONCRETE PAVEMENT, CLASS QC MS 4" ITEM 304 AGGREGATE BASE	1 1/4" ITEM 441 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), (DRIVEWAYS) ITEM 407 NON-TRACKING TACK COAT (0.055 GAL/S.Y.) 1 3/4" ITEM 441 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448), (DRIVEWAYS) 8" ITEM 304 AGGREGATE BASE
CONCRETE			SAME COMPOSITION AS AREA 1

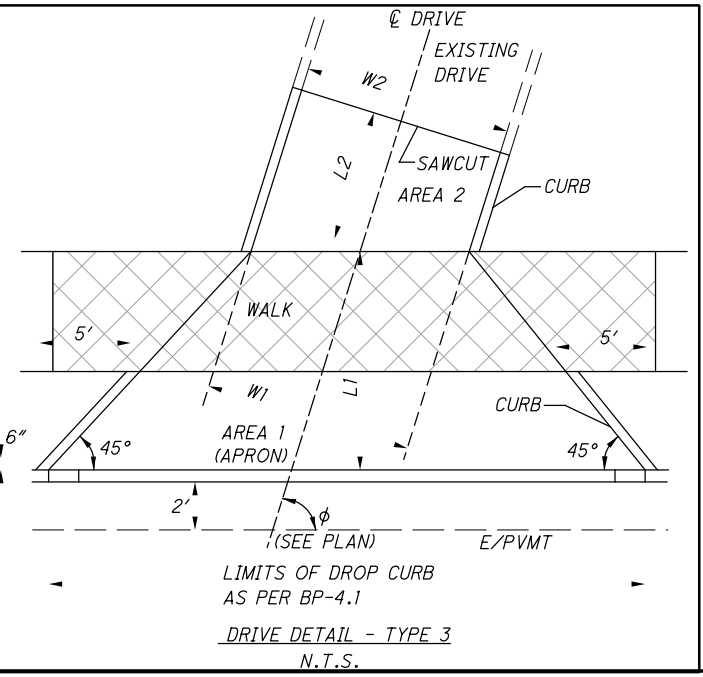
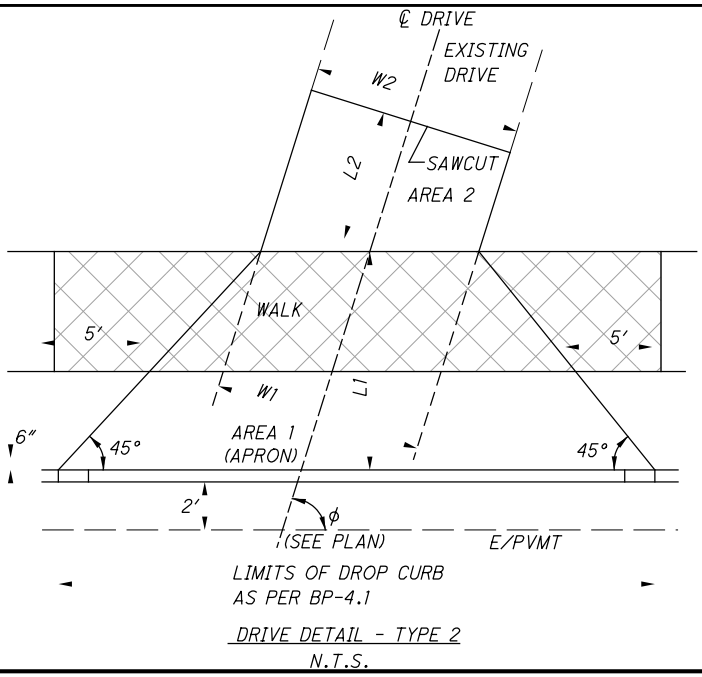


NO.	DESCRIPTION	REV. BY	DATE
6	ADDED EXCAVATION QUANTITY	TMT	1-13-2021

OUTSIDE LIMITS OF APRON (AREA 2) SHALL BE THE SAME COMPOSITION AS AREA 1.

ITEM 608 - 6"/8" CONCRETE WALK, AS PER PLAN. WALK THICKNESS SHALL BE 6" AT RESIDENTIAL/8" AT COMMERCIAL APRONS, AND CONCRETE CLASS QC MS

FOR DRIVE PROFILES, SEE SHEETS 618 - 639
* FOR DRIVE CROSS SECTIONS, SEE SHEETS 640 - 649
** EXCAVATION ADJUSTMENT QUANTITY CARRIED TO EARTHWORK SUBSUMMARY ON SHEET 297



SHEET NO.	REFERENCE NO.	STATION	SIDE	USAGE	TYPE	EXISTING MATERIAL	APRON LENGTH "L1"	DRIVEWAY LENGTH "L2"	WIDTH "W1"	WIDTH "W2"	EXCAVATION ADJUSTMENT	CALCULATED TMT CHECKED MDG	
							FT.	FT.	FT.	FT.			CU. YD.
343	DV-1	85+56.65 (S.R. 18)	RT	RES.	1	GRAVEL	4.27	16.40	13.22	13.22			
343	DV-2	85+85.76 (S.R. 18)	RT	RES.	1	GRAVEL	4.76	22.85	12.00	10.56			
343	DV-3	86+27.96 (S.R. 18)	LT	RES.	1	CONC.	5.45	35.40	12.00	10.10	5		
347	DV-4	94+92.40 (S.R. 18)	LT	RES.	1	GRAVEL	7.50	2.90	12.00	9.72			
347	DV-5	95+38.47 (S.R. 18)	LT	RES.	1	GRAVEL	7.50	5.00	12.00	10.64			
347	DV-6	96+92.15 (S.R. 18)	LT	RES.	1	GRAVEL	7.50	8.44	12.00	9.40			
349	DV-7	98+09.10 (S.R. 18)	LT	RES.	1	GRAVEL	7.50	4.83	12.00	9.68			
353	DV-8	107+20.55 (S.R. 18)	RT	RES.	1	GRAVEL	7.50	61.53	12.00	9.52	5		
353	DV-9	108+94.27 (S.R. 18)	LT	COMM.	-	ASPH.	SEE SHEET 608 FOR DETAIL						
357	DV-10	120+68.54 (S.R. 18)	LT	COMM.	-	ASPH.	SEE SHEET 608 FOR DETAIL					15	
361	DV-11	130+15.37 (S.R. 18)	RT	COMM.	1	ASPH.	7.50	37.69	13.98	13.98	4		
361	DV-12	130+71.92 (S.R. 18)	RT	COMM.	2	CONC.	17.50	66.93	12.00	9.75	22		
363	DV-13	132+24.04 (S.R. 18)	RT	COMM.	3	ASPH.	15.50	51.50	23.02	23.02			
365	DV-14	139+87.35 (S.R. 18)	LT	COMM.	2	ASPH.	17.50	16.45	31.28	31.28			
367	DV-15	144+28.86 (S.R. 18)	LT	COMM.	-	CONC.	SEE SHEET 609 FOR DETAIL						
369	DV-16	147+00.79 (S.R. 18)	RT	COMM.	2	CONC.	17.50	24.51	30.06	30.06			
375	DV-17	162+30.30 (S.R. 18)	LT	COMM.	-	CONC.	SEE SHEET 609 FOR DETAIL						
375	DV-18*	167+21.75 (S.R. 18)	RT	COMM.	-	ASPH.	SEE SHEET 610 FOR DETAIL						
383	DV-19	183+96.31 (S.R. 18)	LT	COMM.	-	ASPH.	SEE SHEET 610 FOR DETAIL						
383	DV-20	185+59.70 (S.R. 18)	LT	COMM.	3	ASPH.	15.50	10.13	34.58	34.58			
383	DV-21	186+39.97 (S.R. 18)	LT	RES.	1	ASPH.	7.50	23.95	12.00	7.88			
383	DV-22	186+58.33 (S.R. 18)	RT	COMM.	-	ASPH.	SEE SHEET 616 FOR DETAIL						
385	DV-23	187+56.04 (S.R. 18)	LT	RES.	1	ASPH.	7.50	3.20	12.00	11.03			
385	DV-24	188+06.11 (S.R. 18)	LT	COMM.	-	ASPH.	SEE SHEET 611 FOR DETAIL						
385	DV-25	190+09.31 (S.R. 18)	LT	COMM.	3	ASPH.	17.50	28.62	34.85	34.85			
387	DV-26	191+54.00 (S.R. 18)	LT	COMM.	3	ASPH.	17.50	18.54	34.58	34.58			
387	DV-27	195+99.38 (S.R. 18)	LT	COMM.	3	ASPH.	17.50	7.00	34.72	34.72			
353	DV-28	110+04.03 (S.R. 18)	RT	FIELD	1	GRAVEL	7.50	46.12	18.00	18.00	7		
396	DV-29	12+22.66 (FOOTE)	RT	COMM.	3	ASPH.	18.64	25.85	23.30	23.30			
397	DV-30	14+58.92 (FOOTE)	LT	COMM.	2	CONC.	17.50	68.69	24.00	24.00			
398	DV-31	20+03.76 (FOOTE)	RT	COMM.	-	ASPH.	SEE SHEET 612 FOR DETAIL						
398	DV-32	20+86.38 (FOOTE)	LT	COMM.	-	ASPH.	SEE SHEET 612 FOR DETAIL						
398	DV-33	21+76.25 (FOOTE)	LT	RES.	1	GRAVEL	7.50	3.80	15.00	15.00			
398	DV-34	22+09.89 (FOOTE)	LT	RES.	1	ASPH.	7.50	8.39	12.00	10.04			
398	DV-35	23+92.82 (FOOTE)	LT	RES.	1	ASPH.	7.50	2.96	13.78	13.78			
399	DV-36	24+47.76 (FOOTE)	RT	COMM.	2	GRAVEL	13.50	12.75	20.59	20.59			
399	DV-37	24+51.53 (FOOTE)	LT	RES.	1	GRAVEL	7.50	12.68	12.00	11.49			
399	DV-38	25+18.19 (FOOTE)	RT	RES.	1	CONC.	7.50	15.00	12.00	10.93			
347	DV-39	11+04.00 (WOODLAND)	LT	RES.	-	CONC.	SEE SHEET 613 FOR DETAIL						
369	DV-40	11+05.44 (VICTOR)	RT	COMM.	2	ASPH.	17.50	27.31	20.73	20.73			
394	DV-41	28+06.36 (S. FRONTAGE)	RT	COMM.	1	ASPH.	17.50	28.67	23.61	23.61			
395	DV-42	29+94.00 (S. FRONTAGE)	RT	COMM.	-	ASPH.	SEE SHEET 613 FOR DETAIL						
391	DV-43	44+07.95 (N. FRONTAGE)	LT	COMM.	-	ASPH.	SEE SHEET 613 FOR DETAIL						
401	DV-44	906+13.44 (RIVER STYX)	LT	RES.	1	CONC.	7.50	44.93	12.00	9.83			
401	DV-45	909+77.81 (RIVER STYX)	LT	RES.	-	CONC.	SEE SHEET 613 FOR DETAIL						
401	DV-46	910+42.63 (RIVER STYX)	LT	RES.	1	GRAVEL	7.50	5.06	20.00	20.00			
401	DV-47	910+83.34 (RIVER STYX)	RT	RES.	1	ASPH.	7.50	7.15	12.00	9.04			
402	DV-48	912+82.74 (RIVER STYX)	LT	RES.	1	CONC.	7.50	1.61	12.00	10.47			
402	DV-49	914+00.31 (RIVER STYX)	LT	RES.	1	CONC.	7.50	17.84	12.00	9.98			
402	DV-50	914+36.85 (RIVER STYX)	RT	RES.	-	ASPH.	SEE SHEET 614 FOR DETAIL						
402	DV-51	915+21.32 (RIVER STYX)	LT	RES.	1	CONC.	7.50	15.50	12.00	9.64			
402	DV-52	915+88.51 (RIVER STYX)	RT	COMM.	2	ASPH.	17.50	9.87	18.51	18.51			
403	DV-53	917+00.62 (RIVER STYX)	LT	RES.	1	CONC.	7.50	3.32	23.55	23.55			
403	DV-54*	918+15.67 (RIVER STYX)	LT	COMM.	-	CONC.	SEE SHEET 614 FOR DETAIL						
403	DV-55	918+96.77 (RIVER STYX)	RT	COMM.	-	CONC.	SEE SHEET 614 FOR DETAIL						
404	DV-57	924+34.22 (SHADY LN.)	LT	COMM.	2	CONC.	17.50	6.98	22.57	22.57			
392	DV-58*	44+92.00 (N. FRONTAGE)	RT	COMM.	-	ASPH.	SEE SHEET 615 FOR DETAIL						
392	DV-59*	44+92.00 (N. FRONTAGE)	RT	COMM.	-	ASPH.	SEE SHEET 615 FOR DETAIL						
384	DV-61	31+42.65 (S. FRONTAGE)	Q	COMM.	-	ASPH.	SEE SHEET 616 FOR DETAIL						
375	DV-62*	165+85.47 (S.R. 18)	RT	COMM.	-	-	SEE SHEET 617 FOR DETAIL						
387	DV-63	192+34.31 (S.R. 18)	LT	COMM.	2	ASPH.	17.50	10.68	20.00	18.62			

TOTAL** 58

DRIVE DETAILS

MED - 18 - 12.99

607
1085

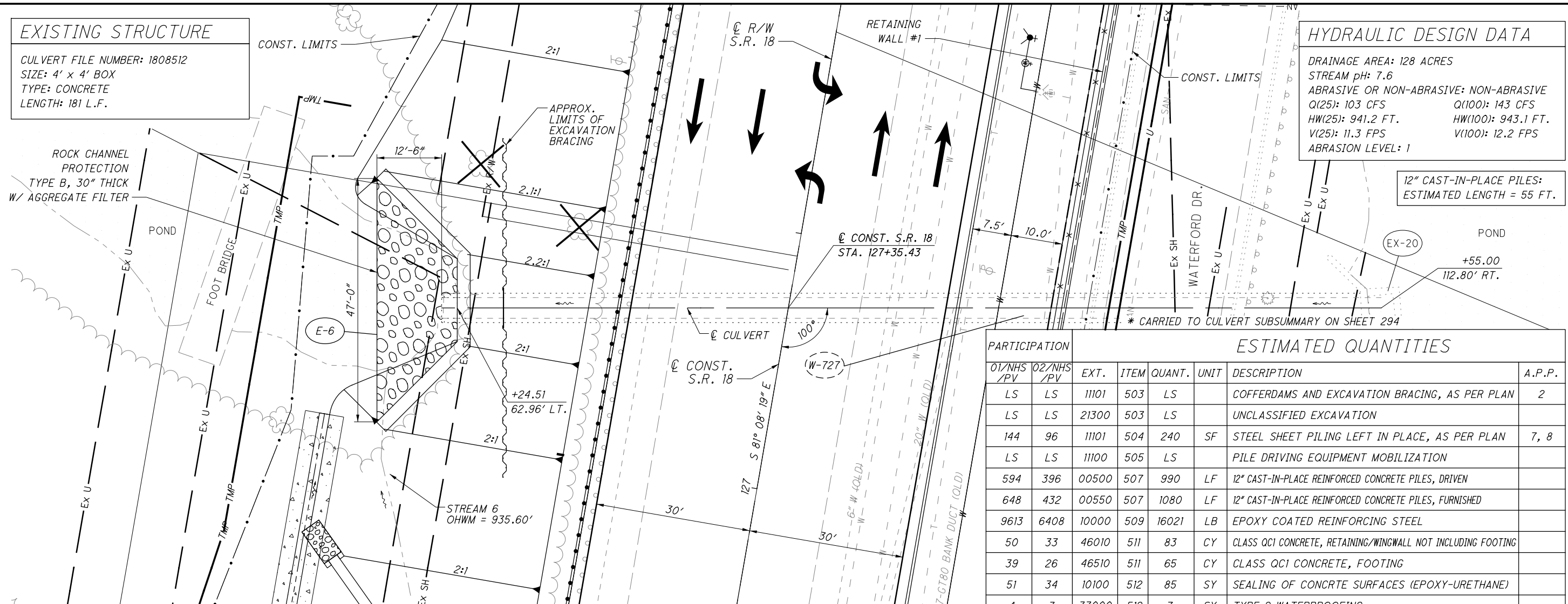
EXISTING STRUCTURE

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 TYPE: CONCRETE
 LENGTH: 181 L.F.

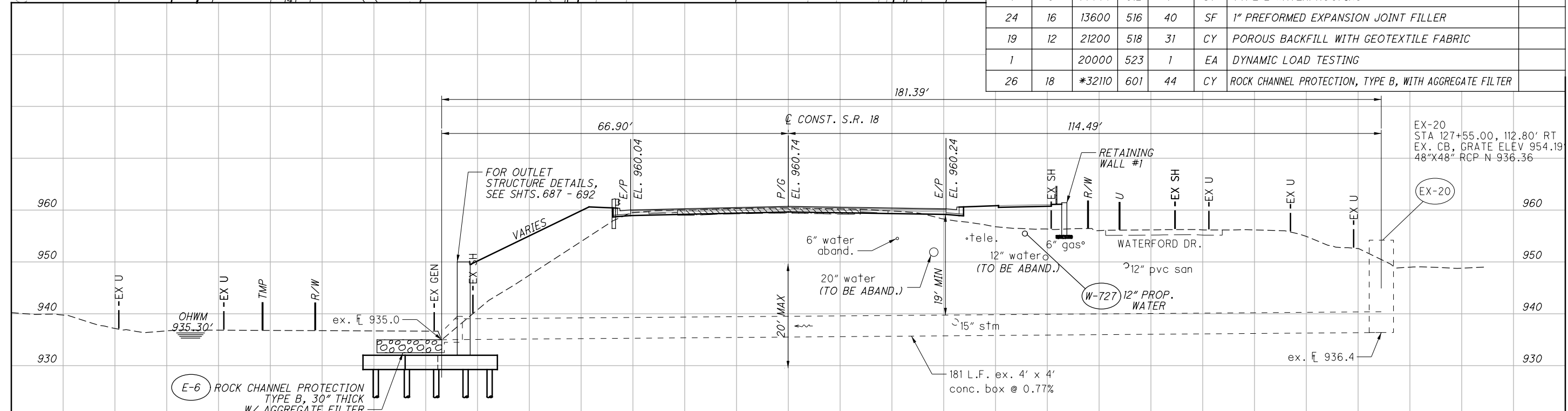
HYDRAULIC DESIGN DATA

DRAINAGE AREA: 128 ACRES
 STREAM pH: 7.6
 ABRASIVE OR NON-ABRASIVE: NON-ABRASIVE
 Q(25): 103 CFS Q(100): 143 CFS
 HW(25): 941.2 FT. HW(100): 943.1 FT.
 V(25): 11.3 FPS V(100): 12.2 FPS
 ABRASION LEVEL: 1

12" CAST-IN-PLACE PILES:
 ESTIMATED LENGTH = 55 FT.



PARTICIPATION						ESTIMATED QUANTITIES	
01/NHS /PV	02/NHS /PV	EXT.	ITEM	QUANT.	UNIT	DESCRIPTION	A.P.P.
LS	LS	11101	503	LS		COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN	2
LS	LS	21300	503	LS		UNCLASSIFIED EXCAVATION	
144	96	11101	504	240	SF	STEEL SHEET PILING LEFT IN PLACE, AS PER PLAN	7, 8
LS	LS	11100	505	LS		PILE DRIVING EQUIPMENT MOBILIZATION	
594	396	00500	507	990	LF	12" CAST-IN-PLACE REINFORCED CONCRETE PILES, DRIVEN	
648	432	00550	507	1080	LF	12" CAST-IN-PLACE REINFORCED CONCRETE PILES, FURNISHED	
9613	6408	10000	509	16021	LB	EPOXY COATED REINFORCING STEEL	
50	33	46010	511	83	CY	CLASS QC1 CONCRETE, RETAINING/WINGWALL NOT INCLUDING FOOTING	
39	26	46510	511	65	CY	CLASS QC1 CONCRETE, FOOTING	
51	34	10100	512	85	SY	SEALING OF CONCRTE SURFACES (EPOXY-URETHANE)	
4	3	33000	512	7	SY	TYPE 2 WATERPROOFING	
24	16	13600	516	40	SF	1" PREFORMED EXPANSION JOINT FILLER	
19	12	21200	518	31	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	
1		20000	523	1	EA	DYNAMIC LOAD TESTING	
26	18	*32110	601	44	CY	ROCK CHANNEL PROTECTION, TYPE B, WITH AGGREGATE FILTER	



NO.	DESCRIPTION	REV. BY	DATE
5	SHEET NUMBERS REVISED	DJC	1/22/21
6	ITEM ADDED	DJC	1/13/21

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 2/3/2021
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CALCULATED
 ATR
 CHECKED
 MDG

CULVERT DETAIL - S.R. 18
CULVERT #3 - STA. 127+35.43

MED-18-12.99

X:\4021000\130039.0\92953\Traffic\sheet\92953.TS101.dgn Sheet 9/25/2020 10:32:54 AM 1426egd

REFERENCE NO.	SHEET NO.	LOCATION	STATION	SIDE	CODE	SIZE INCHES	630	630	630	630	630	630	630	630	630	630	630	631	632	632	631									
							GROUND MOUNTED SUPPORT, NO. 3 POST FT	STREET NAME SIGN SUPPORT, NO. 3 POST FT	SIGN POST REFLECTOR EACH	OVERHEAD SIGN SUPPORT, TYPE TC-16.22, DESIGN 14 EACH	SIGN ATTACHMENT ASSEMBLY EACH	SIGN ATTACHMENT ASSEMBLY, MAST ARM EACH	SIGN SUPPORT ASSEMBLY, POLE MOUNTED EACH	SIGN, FLAT SHEET SF	SIGN, OVERHEAD EXTRUSHEET SF	RIGID OVERHEAD SIGN SUPPORT FOUNDATION EACH	SIGNING, MISC.:SIGN ERECTED, FLAT SHEET, AS PER PLAN EACH	SIGNING, MISC.: SOLAR POWERED LED ENHANCED (W3-3-36, 36"x36") EACH	SIGN FLASHER ASSEMBLY EACH	PEDESTAL FOUNDATION EACH	PEDESTAL, MISC.: 13' EACH	SCHOOL SPEED LIMIT SIGN ASSEMBLY, SOLAR-POWERED, AS PER PLAN EACH								
S1	846	SR 18	82+00.00	RT	W3-3-36	36 x 36	15.8									9.0														
S2	847	SR 18	83+40.00	RT	R2-1-24	24 x 30	13.2									5.0														
S3	847	SR 18	85+00.00	RT	W11-3-36	36 x 36	16.2									9.0														
					D10-H8-12	12 x 12										1.0														
S4	848	SR 18	87+25.00	RT	R3-H8ba-30	30 x 30	13.2									6.3														
S5	848	SR 18	90+43.00	RT	R3-H8b-48	48 x 30	13.4/13.2									10.0														
S6	849	SR 18	92+00.00	LT	R2-1-24	24 x 30	13.2									5.0														
S7	849	SR 18, Mast Arm	92+72.00	LT	R10-12-30	30 x 36							1			7.5														
S8	849	SR 18	92+90.00	LT	D3-1-60	60 x 12		12.7								5.0														
					D3-1-60	60 x 12										5.0														
					D3-H1b-60	60 x 12										5.0														
					D3-H1b-60	60 x 12										5.0														
S9	849	SR 18, Mast Arm	93+72.00	RT	R10-12-30	30 x 36							1			7.5														
S10	849	SR 18	95+12.00	LT	R3-H8bh-36	36 x 30	13.2									7.5														
S11	849	SR 18	95+25.00	RT	R3-9cP-30	24 x 6	14.0									1.0														
					R3-9b-24	24 x 36										6.0														
S12	850	SR 18	98+25.00	LT	R3-9cP-30	24 x 6	14.0									1.0														
					R3-9b-24	24 x 36										6.0														
S13	850	SR 18	98+25.00	RT	R3-9dP-30	24 x 6	14.0									1.0														
					R3-9b-24	24 x 36										6.0														
S14	850	SR 18	98+35.00	RT	R9-3-18	18 x 18	12.5									2.3														
S15	850	SR 18, Pole	98+54.00	LT	R9-3-18	18 x 18					1					2.3														
S16	850	SR 18, Mast Arm	98+54.00	LT	R10-12-30	30 x 36							1			7.5														
S17	850	SR 18, Mast Arm	98+73.00	LT	D3-1-120	120 x 24							2			20.0														
S18	850	SR 18	100+03.00	LT	R3-H8ba-30	30 x 30	13.2									6.3														
S19	850	SR 18	101+20.00	RT	R3-9cP-30	24 x 6	14.0									1.0														
					R3-9b-24	24 x 36										6.0														
S20	850	SR 18	101+30.00	LT	R10-7-24	24 x 30	13.0									5.0														
S21	851	SR 18	102+40.00	RT	I-H25a-12	12 x 12	11.7									1.0														
S22	851	SR 18	102+85.00	RT	Sign, APP																									
					Sign, APP																									
S23	851	SR 18	103+00.00	LT	Sign, APP																									
					Sign, APP																									
S24	851	SR 18	103+50.00	RT	I-2H8-48	48 x 24	12.8/12.7									8.0														
					Sign, APP																									
S25	851	SR 18	104+50.00	RT	D14-H4-48	48 x 30	14.3/14.2									10.0														
					I-H14a-48	48 x 12										4.0														
S26	851	SR 18	104+75.00	LT	R2-1-30	30 x 36	13.5									7.5														
S27	851	SR 18	106+00.00	RT	R2-1-30	30 x 36	13.7									7.5														
S28	852	SR 18	107+05.00	LT	I-H2a-48		16.5/18.0									8.0														
					Sign, APP																									
					R20-H1-36	36 x 48										12.0														
S29	852	SR 18	107+70.00	RT	R20-H1-36	36 x 48	14.7									12.0														
S30	852	SR 18	108+25.00	LT	W3-5-36	36 x 36	14.5									9.0														
S31	852	SR 18	109+90.00	LT	W9-IR-36	36 x 36	14.7									9.0														
S32	852	SR 18	111+10.00	LT	R3-9cP-30	24 x 6	14.0									1.0														
					R3-9b-24	24 x 36										6.0														
TOTALS CARRIED TO GENERAL SUMMARY							391.4	12.7			1	5			254.2			6												

NO.	DESCRIPTION	REV. BY	DATE
6	REV. TC-16.21 TO TC-16.22	DLW	2/3/2021

TRAFFIC CONTROL SUBSUMMARY - SIGNING

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X:\4021000\130039\0\92953\Traffic\sheet\92953.TS\02.dgn Sheet 9/25/2020 10:32:55 AM 1426egd

REFERENCE NO.	SHEET NO.	LOCATION	STATION	SIDE	CODE	SIZE INCHES	630	630	630	630	630	630	630	630	630	630	630	631	632	632	631						
							GROUND MOUNTED SUPPORT, NO. 3 POST FT	STREET NAME SIGN SUPPORT, NO. 3 POST FT	SIGN POST REFLECTOR EACH	OVERHEAD SIGN SUPPORT, TYPE TC-16.22, DESIGN 14 EACH	SIGN ATTACHMENT ASSEMBLY EACH	SIGN ATTACHMENT ASSEMBLY, MAST ARM EACH	SIGN SUPPORT ASSEMBLY, POLE MOUNTED EACH	SIGN, FLAT SHEET SF	SIGN, OVERHEAD EXTRUSHEET SF	RIGID OVERHEAD SIGN SUPPORT FOUNDATION EACH	SIGNING, MISC.:SIGN ERECTED, FLAT SHEET, AS PER PLAN EACH	SIGNING, MISC.: SOLAR POWERED LED ENHANCED (W3-3-36, 36"x36") EACH	SIGN FLASHER ASSEMBLY EACH	PEDESTAL FOUNDATION EACH	PEDESTAL, MISC.: 13' EACH	SCHOOL SPEED LIMIT SIGN ASSEMBLY, SOLAR-POWERED, AS PER PLAN EACH					
S33	852	SR 18	111+40.00	RT	R3-H8cg-48	48 x 30	13.4/13.2									10.0											
S34	853	SR 18	112+30.00	LT	M3-4-24	24 x 12	13.5									2.0											
					M1-5-24-2	24 x 24										4.0											
S35	853	SR 18	113+50.00	LT	W4-2R-36	36 x 36	14.5									9.0											
S36	853	SR 18	114+20.00	RT	R9-3-18	18 x 18	12.5									2.3											
S37	853	SR 18, Pole	114+31.00	LT	R9-3-18	18 x 18					1					2.3											
S38	853	SR 18, Pole	114+31.00	LT	R9-3-18	18 x 18					1					2.3											
S39	853	SR 18, Mast Arm	114+32.00	LT	D3-1-72	72 x 24						2				12.0											
S40	853	SR 18, Mast Arm	114+32.00	LT	R10-12-30	30 x 36						1				7.5											
S41	853	SR 18, Mast Arm	114+70.00	RT	D3-1-84	84 x 24						2				14.0											
S42	853	SR 18, Mast Arm	115+01.00	RT	R10-5-30	30 x 36						1				7.5											
S43	853	SR 18, Mast Arm	115+26.00	LT	D3-1-84	84 x 24						2				14.0											
S44	853	SR 18	115+50.00	LT	R9-3-18	18 x 18	12.5									2.3											
S45	853	SR 18, Mast Arm	115+82.00	RT	R10-12-30	30 x 36						1				7.5											
S46	853	SR 18, Mast Arm	115+82.00	RT	D3-1-72	72 x 24						2				12.0											
S47	854	SR 18	117+00.00	RT	D2-H2-48	48 x 24	12.9/12.7									8.0											
S48	854	SR 18	119+50.00	LT	R3-H8da-54	54 x 30	12.7/14.2									11.3											
S49	854	SR 18	120+42.00	LT	R1-5-30	30 x 30	13.0			1						6.3											
S50	854	SR 18	120+62.00	LT	R1-5-30	30 x 30	13.0			1						6.3											
S51	854	SR 18	120+68.00	RT	R3-H8ca-48	48 x 30	13.4/13.2									10.0											
S52	854	SR 18	120+68.40	LT	R3-2-24	24 x 24	12.5									4.0											
S53	855	SR 18	122+03.00	LT	D3-1-48	48 x 12			12.7							4.0											
					D3-1-48	48 x 12										4.0											
					D3-1-72	72 x 12										6.0											
					D3-1-72	72 x 12										6.0											
S54	855	SR 18	124+05.00	RT	D3-1-48	48 x 12			11.7							4.0											
					D3-1-48	48 x 12										4.0											
S55	855	SR 18	126+35.00	LT	R3H8ca-48	48 x 30	13.2/14.7									10.0											
S56	855	SR 18	126+35.00	RT	R3-9cP-30	24 x 6	14.0									1.0											
					R3-9b-24	24 x 36										6.0											
S57	856	SR 18	127+50.00	RT	R2-1-30	30 x 36	13.2									7.5											
S58	856	SR 18	129+62.00	RT	R3H8ca-48	48 x 30	13.2/13.4									10.0											
S59	856	SR 18	129+62.00	LT	R3-9cP-30	24 x 6	14.0									1.0											
					R3-9b-24	24 x 36										6.0											
S60	856	SR 18	131+50.00	RT	W3-3-36	36 x 36										9.0		1									
S61	856	SR 18	131+70.00	LT	R3-9cP-30	24 x 6	14.0									1.0											
					R3-9b-24	24 x 36										6.0											
S62	857	SR 18	132+90.00	RT	D9-H13H-24	24 x 48	16.0									8.0											
		SR 18			M5-1R-21	21 x 15										2.2											
S63	857		134+00.00	RT	R3H8bk-36	36 x 30	13.2									7.5											
S64	857	SR 18	134+25.00	LT	R2-1-30	30 x 36	13.5									7.5											
S65	857	SR 18	135+80.00	LT	R3-9cP-30	24 x 6	14.0									1.0											
					R3-9b-24	24 x 36										6.0											
S66	857	SR 18	135+81.00	RT	D9-13-24	24 x 24	14.0									4.0											
S67	857	SR 18	136+00.00	LT	R9-3-18	18 x 18	12.5									2.3											
S68	857	SR 18	136+00.00	RT	R9-3-18	18 x 18	12.5									2.3											
S69	857	SR 18, Mast Arm	136+20.00	LT	R10-12-30	30 x 36						1				7.5											
S70	857	SR 18, Mast Arm	136+40.00	LT	D3-1-84	84 x 24						2				14.0											
S71	857	SR 18	136+50.00	LT	D9-2-24	24 x 24	13.9									4.0											
					M6-3-21	21 x 15										2.2											
S72	857	SR 18	136+50.00	LT	D9-13-24	24 x 24	13.9									4.0											
					M6-1L-21	21 x 15										2.2											
TOTALS CARRIED TO GENERAL SUMMARY							430.4	24.4	2		2	14			314.8			1	1	1	1						

NO.	DESCRIPTION	REV. BY	DATE
6	REV. TC-16.21 TO TC-16.22	DLW	2/3/2021

TRAFFIC CONTROL SUBSUMMARY - SIGNING

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X:\4021000\130039\0\92953\Traffic\Sheets\92953.TS103.dgn Sheet 9/25/2020 10:32:55 AM 1426egd

REFERENCE NO.	SHEET NO.	LOCATION	STATION	SIDE	CODE	SIZE INCHES	630	630	630	630	630	630	630	630	630	630	630	631	632	632	631						
							GROUND MOUNTED SUPPORT, NO. 3 POST FT	STREET NAME SIGN SUPPORT, NO. 3 POST FT	SIGN POST REFLECTOR EACH	OVERHEAD SIGN SUPPORT, TYPE TC-16.22, DESIGN 14 EACH	SIGN ATTACHMENT ASSEMBLY EACH	SIGN ATTACHMENT ASSEMBLY, MAST ARM EACH	SIGN SUPPORT ASSEMBLY, POLE MOUNTED EACH	SIGN, FLAT SHEET SF	SIGN, OVERHEAD EXTRUSHEET SF	RIGID OVERHEAD SIGN SUPPORT FOUNDATION EACH	SIGNING, MISC.:SIGN ERECTED, FLAT SHEET, AS PER PLAN EACH	SIGNING, MISC.: SOLAR POWERED LED ENHANCED (W3-3-36, 36"x36") EACH	SIGN FLASHER ASSEMBLY EACH	PEDESTAL FOUNDATION EACH	PEDESTAL, MISC.: 13' EACH	SCHOOL SPEED LIMIT SIGN ASSEMBLY, SOLAR-POWERED, AS PER PLAN EACH					
S73	858	SR 18	138+00.00	RT	D10-H8-12	12 x 12	11.7									1.0											
S74	858	SR 18	139+40.00	LT	R3-H8ca-48	48 x 30	13.2/13.4									10.0											
S75	858	SR 18	139+40.00	RT	R3-9cP-30	24 x 6	14.0									1.0											
					R3-9b-24	24 x 36										6.0											
S76	858	SR 18	140+00.00	RT	I-3-48	48 x 18	13.0									6.0											
					I-H25a-12	12 x 12										1.0											
S77	858	SR 18	141+90.00	RT	S1-I-36	36 x 36	14.5									9.0											
					W16-9P-24	24 x 12										2.0											
S78	858	SR 18	141+95.00	LT	I-3-48	48 x 18	13.0									6.0											
					I-H25a-12	12 x 12										1.0											
S79	859	SR 18	143+00.00	LT	D9-H13H-24	24 x 48	16.0									8.0											
					M5-IL-21	21 x 15										2.2											
S80	859	SR 18	143+98.00	LT	R1-5-30	30 x 30	13.0			1						6.3											
S81	859	SR 18	144+23.00	LT	R1-5-30	30 x 30	13.0			1						6.3											
S82	859	SR 18	144+27.70	LT	R3-2-24	24 x 24	12.5									4.0											
S83	859	SR 18	146+40.00	LT	S5-3-30	30 x 36	13.5									7.5											
S84	859	SR 18	146+50.00	RT	S5-HI-30	30 x 60										12.5			1	1	1	1					
S85	860	SR 18	147+40.00	LT	R3-H8ca-48	48 x 30	13.2/13.4									10.0											
S86	860	SR 18	148+22.00	LT	D3-I-36	36 x 12		15.0	1							3.0											
					D3-I-36	36 x 12										3.0											
					D3-I-48	48 x 12										4.0											
					D3-I-48	48 x 12										4.0											
					R5-I-30	30 x 30										6.3											
S87	860	SR 18	148+60.00	LT	R5-I-30	30 x 30	13.0			1						6.3											
S88	860	SR 18	148+62.20	LT	R3-2-24	24 x 24	12.5									4.0											
S89	860	SR 18	149+20.00	RT	R3-9cP-30	24 x 6	14.0									1.0											
					R3-9b-24	24 x 36										6.0											
S90	860	SR 18	149+55.00	LT	R3-9dP-30	24 x 6	14.0									1.0											
					R3-9b-24	24 x 36										6.0											
S91	861	SR 18	152+06.00	LT	S5-HI-30	30 x 60										12.5			1	1	1	1					
S92	861	SR 18	152+06.00	RT	R3-H8cg-48	48 x 30	13.2/13.4									10.0											
					S5-3-30	30 x 36										7.5											
S93	861	SR 18, Mast Arm	154+03.00	LT	D3-I-120	120 x 24						2				20.0											
S94	861	SR 18, Mast Arm	154+03.00	LT	R10-5-30	30 x 36						1				7.5											
S95	861	SR 18, Mast Arm	154+38.00	RT	D3-I-84	84 x 24						2				14.0											
S96	861	SR 18, Mast Arm	154+61.00	RT	R10-5-30	30 x 36						1				7.5											
S97	861	SR 18, Mast Arm	154+88.00	LT	R10-5-30	30 x 36						1				7.5											
S98	861	SR 18, Mast Arm	155+11.00	LT	D3-I-84	84 x 24						2				14.0											
S99	861	SR 18, Mast Arm	155+56.00	RT	R10-5-30	30 x 36						1				7.5											
S100	861	SR 18, Mast Arm	155+56.00	RT	D3-I-120	120 x 24						2				20.0											
S101	862	SR 18	157+15.00	LT	S1-I-36	36 x 36	14.7									9.0											
					W16-9P-24	24 x 12										2.0											
S102	862	SR 18	158+40.00	LT	R3-H8cg-48	48 x 30	13.2/13.4									10.0											
S103	862	SR 18	158+50.00	RT	R3-9cP-30	24 x 6	14.0									1.0											
					R3-9b-24	24 x 36										6.0											
S104	862	SR 18	160+50.00	RT	R2-I-30	30 x 36	13.7									7.5											
S105	862	SR 18	161+92.00	LT	R5-I-30	30 x 30	13.2			1						6.3											
S106	863	SR 18	162+07.00	LT	R1-I-36	36 x 36	13.5			1						9.0											
S107	863	SR 18	162+23.00	LT	R5-I-30	30 x 30	13.2			1						6.3											
TOTALS CARRIED TO GENERAL SUMMARY							376.4	15.0	7			12			329.5				2	2	2	2					

NO.	DESCRIPTION	REV. BY	DATE
6	REV. TC-16.21 TO TC-16.22	DLW	2/3/2021

TRAFFIC CONTROL SUBSUMMARY - SIGNING

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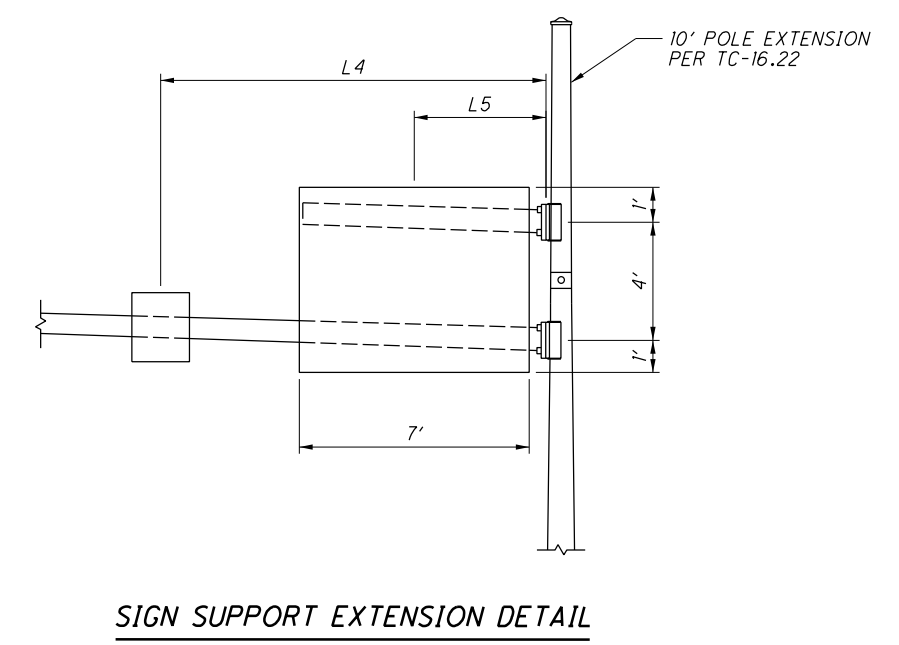
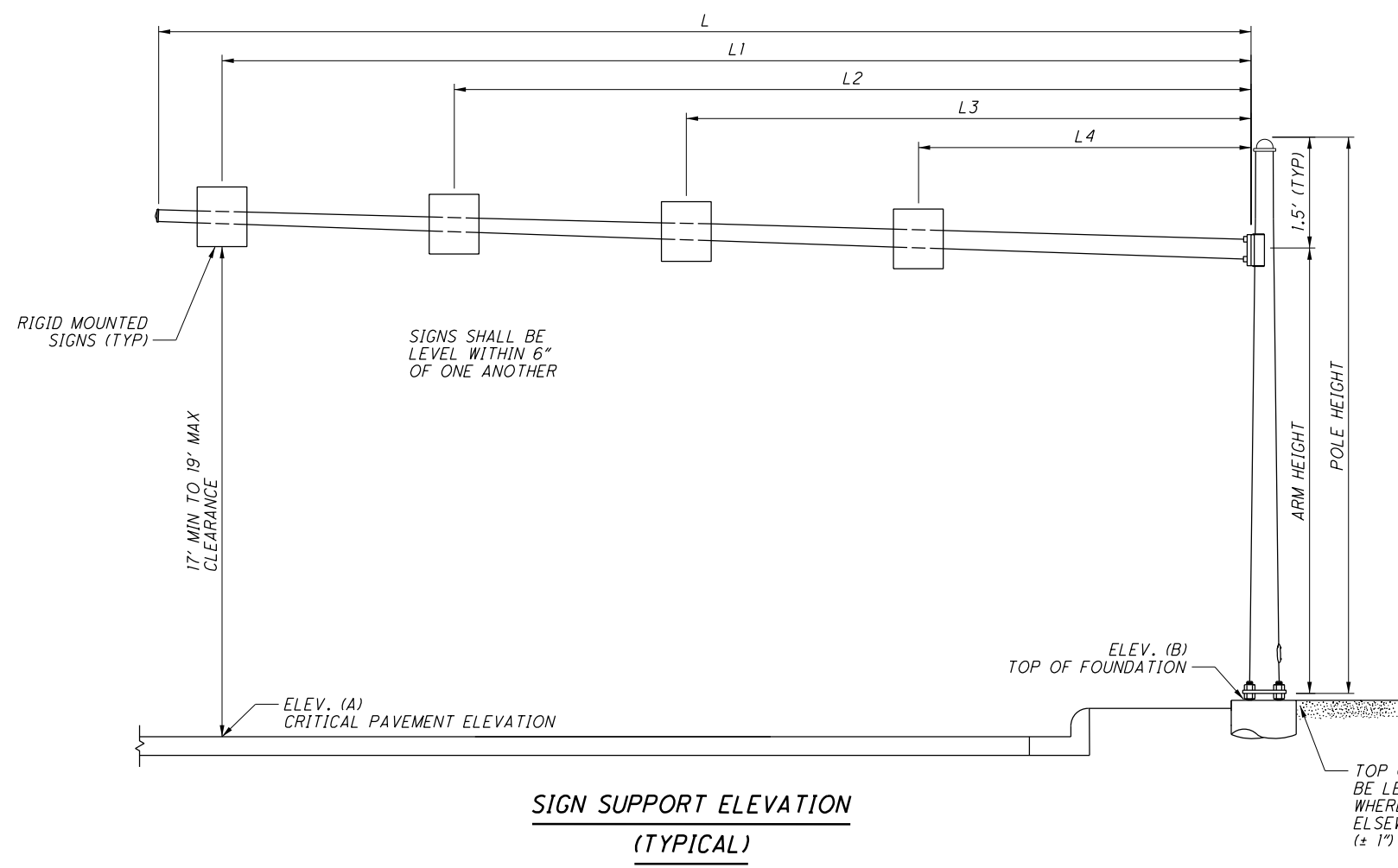
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TRAFFIC SIGNAL PLAN DETAILS

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TOP OF SIGN SUPPORT FOUNDATIONS SHALL BE LEVEL WITH THE SIDEWALK ELEVATION WHERE ADA LANDINGS ARE ADJACENT; ELSEWHERE, FOUNDATIONS SHALL BE 2" (± 1") ABOVE GRADE PER TC-21.21

MAST ARM TABLE

SUPPORT NO.	STATION	OFFSET	ELEVATION		SIGNAL SUPPORT DETAILS										
			A	B	DESIGN TYPE	DESIGN NO.	POLE HEIGHT	ARM HEIGHT	L	L1	L2	L3	L4	L5	
			FT	FT											FT
1	174+16	50.50	988.00	988.07	TC-16.21	14	21.5	20.0	60.0	50.5	38.5	26.5	14.5	-	-
2	175+30	65.00	991.90	992.27	TC-16.21	14	21.5	20.0	72.0	65.0	53.0	41.0	29.0	-	-
3	182+70	48.00	1017.10	1016.77	TC-16.21	14	21.5	20.0	60.0	48.0	36.0	24.0	12.0	-	-
4	194+72	57.50	1068.90	1051.77	TC-16.21	14	33.5	20.0	60.0	49.5	37.5	25.5	13.5	4.5	-

NO.	DESCRIPTION	REV. BY	DATE
6	REV. DESIGN NO. TO 14	DLW	2/2/21