**Legend**

1. **EXISTING PAVEMENT**
2. **EXISTING CURB**
3. **NON-TRACKING TACK COAT (0.06 GAL/S.Y.)**
4. **ITEM 407**
5. **ITEM 441**
6. **1-1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22**
7. **ITEM 409**
8. **ITEM 505**
9. **ITEM 441**
10. **1-1/2" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (448)**
11. **ITEM 605**
12. **ITEM 505**
13. **ITEM 605**
14. **ITEM 301**
15. **ITEM 304**
16. **ITEM 304**
17. **ITEM 605**
18. **ITEM 608**
19. **ITEM 609**
20. **ITEM 605**

**Notes:**
- **EXISTING PAVEMENT REMOVAL MAY INCLUDE VARIABLE DEPTH EXCAVATION TO ESTABLISH SUBGRADE ELEVATIONS. COST OF THE EXCAVATION SHALL BE INCIDENTAL ITEM 202 - PAVEMENT REMOVED. SEE BELOW FOR UNDERDRAIN DETAILS. SEE SHEET 18 FOR CONCRETE BLAB DETAILS.**

**COLUMBIA ROAD**

**Concrete Widening Section**

STA: 19+08.87 TO STA: 19+45.87 = 36.00 LF.

**Asphalt Widening Section**

(a) STA: 12+48.27 TO STA: 17+72.00 = 545.73 LF.
(b) STA: 17+72.00 TO STA: 18+50.50 = 86.37 LF.
(c) STA: 18+50.50 TO STA: 19+36.87 = 86.37 LF.
(d) STA: 19+36.87 TO STA: 24+50.83 = 493.96 LF.
(e) STA: 24+50.83 TO STA: 25+10.25 = 59.42 LF.

**Walk Section**

STA: 10+23.80 TO STA: 10+57.59 = 148.68 LF.

**Subgrade Compaction with Proof Rolling**

**Granular Material, Type C (16")**

**Final Backfill:**
- **a)** Under PAVEMENT: Cost ITEM 304 OR ITEM 605 @ 98% COMPACTION.
- **b)** GRASS AREAS: APPROVED NATIVE MATERIAL FREE OF LARGE STONES & CLUMPS (MAX. 8" LIFTS; 95% COMPACTION).

**Final Restoration:** Cost Included with Other Items

**Undrained Detail**

**SAWCUT**
- **A** - 36.5' ± 1.5'
- **B** - 36.5' ± 2.0%

**MATCH EX. ELEVATION**
- **A** - 12:1
- **B** - 5'

**MATCH EX. HEADWALL**
- **A** - TOP OF EXISTING CULVERT CORRIDOR
- **B** - 20'

**GUARDRAIL, TYPE MGS**

**Concrete Base, As Per Plan (9.7")**

**Concrete Walk (4")**

**Concrete Base, As Per Plan (4")**

**Concrete Curb & Gutter, Type 2 (4")**

**Concrete Curb & Gutter, Type 2 (3")**

**Concrete Curb & Gutter, Type 2 (2")**

**Concrete Curb & Gutter, Type 2 (1")**

**Concrete Curb & Gutter, Type 2 (1")**

**Concrete Base Pipe Underdrain**

**4" BASE PIPE UNDERDRAIN**

**5" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (448) **

**9" ASPHALT CONCRETE BASE, PG64-22 (2 LIFTS)**

**1-1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22**

**1-1/2" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (448)**

**JOINT FABRIC, AS PER PLAN**

**Endings:**
- **ITEM 301**
- **ITEM 304**
- **ITEM 304**
- **ITEM 605**
- **ITEM 608**
- **ITEM 609**
- **ITEM SPECIAL**
- **ITEM 605**
- **ITEM 605**
- **ITEM 605**

**Contingency Item:**

**Pavement Planing (3" Typical)**

**Final Restoration:**
- **(3" ITEM 653 @ GRASS AREAS)**

**Final Backfill:**
- **a)** Under PAVEMENT: Cost ITEM 304 OR ITEM 605 @ 98% COMPACTION.
- **b)** GRASS AREAS: APPROVED NATIVE MATERIAL FREE OF LARGE STONES & CLUMPS (MAX. 8" LIFTS; 95% COMPACTION).

**Gravel Fill Material (NO. 8 GRAVEL) PER ITEM 605**

**Gravel Base Pipe Underdrain**

**Concrete Base Pipe Underdrain**

**Concrete Base Pipe Underdrain**

**Concrete Base Pipe Underdrain**

**Note:** See cross sections for exact tie-in slopes.
THERE IS NO GUARANTEE TO THEIR ACCURACY OR COMPLETENESS. THE LOCATIONS OF THE UNDERGROUND UTILITIES SHOWN ON THE PLAN ARE AS OBTAINED FROM THE ITEM 609 CURB & GUTTER, TYPE 2, AS PER PLAN.

ELECTRONIC DATA FILES HAVE BEEN USED BY THE KLEINGERS GROUP FOR THE SOLE PURPOSE OF GENERATING THIS PLAN DRAWING. THE USE OF THE ELECTRONIC DATA FILES IS AT THE USER'S RISK AND FULL LEGAL RESPONSIBILITY.

BACKFILL SHALL BE INCIDENTAL TO ITEM 305 CONCRETE BASE, AS PER PLAN.

LONGITUDINAL AND TRANSVERSE DIRECTIONS. ALL REINFORCING AND LOW MORTAR STRENGTH MATERIALS SHALL BE OF THE FIRST QUALITY, PROPER AND SUFFICIENT FOR THE PURPOSE INTENDED AND IN COMPLIANCE WITH THE SPECIFICATIONS.

A QUANTITY HAS BEEN SET UP IN THE PLANS FOR THE APPLICATION OF AN ASPHALT IMPREGNATED PAVING BITUMINOUS MIXTURE. TEMPORARY PAVEMENT MARKINGS SHALL BE PERMITTED. GRINDING METHODS OF REMOVAL THAT LEAVE THE ROADWAY UNSMOOTHED ARE NOT PERMITTED. ONLY SANDBLASTING, WATER BLASTING, OR OTHER NON-DESTRUCTIVE MEANS OF REMOVAL OF PAVEMENT MARKINGS ARE PERMITTED.

MATERIALS SHALL BE INSTALLED IN A MANNER THAT CAUSES THE LEAST INCONVENIENCE TO THE PUBLIC AND THE CONTRACTOR DURING THE CONSTRUCTION PERIOD. ALL CONSTRUCTION DEVICES FOR STREETS AND HIGHWAYS REFER TO THE CONTRACTOR, UTILITIES, AND ENGINEER RESPONSIBILITY.

MATERIALS FOR THE HORIZONTAL AND HORIZONTAL AND TRANSVERSE DIRECTIONS. ALL TEMPORARY TRAFFIC CONTROL DEVICES FOR PROJECTS SHALL BE OF THE SAME MATERIAL OR EQUIVALENT.

CUTTING BACK OF THE PAVEMENT SHALL BE LIMITED TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. THE REQUIRED WORK SHALL BE PERFORMED IN A MANNER THAT CAUSES THE LEAST INCONVENIENCE TO THE PUBLIC AND THE CONTRACTOR DURING THE CONSTRUCTION PERIOD. CONSTRUCTION DEVICES FOR MAINTENANCE OF TRAFFIC, 1. CONSTRUCTION LIMITS: THE CONTRACTOR SHALL PROVIDE FOR THE INSTALLATION OF ALL NECESSARY TRAFFIC CONTROL DEVICES. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE Lump Sum CONTRACT PRICE FOR 614, MAINTAINING TRAFFIC. THROUGH FAILURE TO EMPLOY USUAL AND REASONABLE SAFEGUARDS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

THE CONTRACTOR SHALL PROVIDE FOR THE INSTALLATION OF ALL NECESSARY TRAFFIC CONTROL DEVICES. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE Lump Sum CONTRACT PRICE FOR 614, MAINTAINING TRAFFIC.

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COLUMBIA ROAD (CR-16) IMPROVEMENTS
PLAN AND PROFILE - STA 16+50 TO STA 16+60

MATCH LINE - STA 16+50
SEE PREVIOUS SHEET

COLUMBIA ROAD

MATCH LINE - STA 16+60
SEE NEXT SHEET

12+00 13+00 14+00 15+00 16+00

INLET GRATE INV = 837.6' +/-

12+06.27, 36.50' L

STA. 12+06.27, 36.50' L

MATCH EXIST. BEGIN CURB & GUTTER BEGIN WIDENING

STA. 13+53.21, 46.50' L

MATCH EXIST.
MATCH EXISTING

1 2 3 4

STA. 13+68.21, 61.50' L

END 5' WALK MATCH EXIST.

CB-1

42" HDPE PIPE

STA. 15+00.00, 36.00' L

GRATE: 830.23 12" INV: 827.25 (N)

250 L.F. 12" TYPE B @ 5.50%

DO NOT DISTURB RELOCATE REMOVE MILL & RESURFACE

TRANSITION CURB AND GUTTER, TYPE 2 TO CURB AND GUTTER, TYPE 3 (24"

SEE SHEETS W1-W7 FOR ADJUST TO GRADE BY OTHERS

KLEINGERS GROUP

THE ELECTRONIC DATA FILES HAVE BEEN USED BY THE KLEINGERS GROUP FOR THE SOLE PURPOSE OF GENERATING THIS PLAN DRAWING. THE USER OF THE DATA FILES IS RESPONSIBLE FOR THEIR USE.

THE USE OR REUSE OF ELECTRONIC DATA FILES IS AT THE USER'S RISK AND FULL LEGAL RESPONSIBILITY.

H:\2018\180166\003_DWG_Sheets\180166TPNP003.dwg, 9/5/2019 2:49:40 PM, sarahc
BEGIN TRANSITION
END WIDENING
END CURB & GUTTER
MATCH EXISTING

EX. SAN. STA. 25+10.25, 34.95'L
STA. 24+50.83, 36.50'L

DO NOT DISTURB
RELOCATE
REMOVE
MILL & RESURFACE

TRANSITION CURB AND GUTTER, TYPE 2 TO CURB AND GUTTER, TYPE 3 (24")
SEE SHEETS W1-W7 FOR WATER MAIN PLANS.

ADJUST TO GRADE
BY OTHERS

THE ELECTRONIC DATA FILES HAVE BEEN USED BY THE KLEINGERS GROUP FOR THE SOLE PURPOSE OF GENERATING THIS PLAN DRAWING. THE... LAYOUT OR ANY OTHER USE. THE USE OR REUSE OF ELECTRONIC DATA FILES IS AT THE USER'S RISK AND FULL LEGAL RESPONSIBILITY.
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All elevations and curve information shown at the curb are back of curb. Back of curb elevations do not account for curb depressions at curb cuts. Adjust as necessary.

Payment for all labor, equipment and materials shall be included in the lump sum contract price for 203 roadway, misc.: high - vehicular load grassed fire lane.

Columbus Road (CR15) Improvements
Intersection Detail

Back of curb curve table

Prop. HW, by others
Prop. MH, by others

- 4' notch for gutter drainage
- 4" notch for gutter drainage

Payment for all labor, equipment and materials shall be included in the lump sum contract price for 203 roadway, misc.: high - vehicular load grassed fire lane.

All elevations and curve information shown at the curb are back of curb. Back of curb elevations do not account for curb depressions at curb cuts. Adjust as necessary.

H:\2018\180166\003\_DWG\Sheets\180166TINT003.dwg, 9/5/2019 1:53:35 PM, sarahc
NOTES

ITEM 305 CONCRETE BASE, AS PER PLAN - CONCRETE SHALL BE CLASS QC 2 (28 DAY COMPRESSION STRENGTH = 5,000 PSI). THE CONTRACTOR SHALL REINFORCE THE CONCRETE SLAB USING #5 REBAR SPACED AT 8 INCH INTERVALS CENTER TO CENTER. REINFORCING SHALL BE PROVIDED IN BOTH LONGITUDINAL AND TRANSVERSE DIRECTIONS. ALL REINFORCING AND LOW MORTAR STRENGTH BACKFILL SHALL BE INCIDENTAL TO ITEM 305 CONCRETE BASE, AS PER PLAN.

THE CONTRACTOR SHALL PROVIDE ALL NECESSARY PROBLEMS TO ENSURE THE STEEL REMAINS IN THE CONCRETE SLAB DOES NOT COME IN CONTACT WITH THE EXISTING ALUMINUM BOX CULVERT.

THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN EXCAVATING MATERIAL OVER THE ALUMINUM BOX CULVERT. ANY PART OF THE CULVERT THAT IS DAMAGED DUE TO CONSTRUCTION SHALL BE REPLACED OR REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER AND AT NO EXPENSE TO THE ENGINEER. PAYMENT FOR THE WORK LISTS ABOVE SHALL BE INCLUDED IN THE BID PRICE PER CY FOR ITEM 305 CONCRETE BASE, AS PER PLAN.

THE EXISTING CONTECH ALUMINUM BOX CULVERT TROUSSES A DISTANCE OF 3-9/16". THE CONTRACTOR SHALL PROVIDE A MINIMUM OF 1" OF FLOWABLE FILL ABOVE THE RIBS.

REINFORCED CONCRETE SLAB

SEE NOTES THIS SHEET FOR REINFORCING REQUIREMENTS.

ELECTRONIC DATA FILES HAVE BEEN USED BY THE KLEINGERS GROUP FOR THE SOLE PURPOSE OF GENERATING THIS PLAN DRAWING. THE USER ACKNOWLEDGES THAT THE ELECTRONIC DATA FILES ARE PRODUCED FOR THE PURPOSE OF PRODUCING THIS PLAN DRAWING AND ARE NOT INTENDED FOR USE IN THE DESIGN, CONSTRUCTION, LAYOUT OR ANY OTHER USE. THE USE OR REUSE OF ELECTRONIC DATA FILES IS AT THE USER'S RISK AND FULL LEGAL RESPONSIBILITY.

MWN
SEC
CHECKED
CALCULATED

9/9/2019 9:15:39 AM, sarahc
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**Note:** The electronic data files have been used by the Kleingers Group for the sole purpose of generating this plan drawing. The use for any other purpose is not permitted without express permission from the Kleingers Group. The user accepts full legal responsibility for any use or reuse of the electronic data files.
NOTES:
ROAD CLOSURE IS ALLOWABLE BETWEEN THE HOURS OF 8:00 AM AND 4:00 PM, EXCEPT DURING EVENING, OVERNIGHT AND MORNING. CONTRACTOR SHALL WORK THE LOCAL BUSINESSES, RESIDENTS AND SCHOOL BUSES TO ENSURE ACCESS TO INGRESS AND EGRESS. ROADWAY SHALL BE CLEANED AND CLEAR OF ALL HAZARDS AFTER EACH WORKDAY. PROVIDE WRITTEN NOTIFICATION TO THE WARREN COUNTY ENGINEER'S OFFICE A MINIMUM OF 30 DAYS PRIOR TO CLOSURE.
PIPE SHALL NOT BE STORED OR STAGED ALONG THE RIGHT-OF-WAY. ONLY PIPING INSTALLED EACH DAY SHALL BE LOCATED ALONG THE RIGHT-OF-WAY.
INSTALL WATER MAIN IN ROADWAY PER STANDARD DETAIL ON SHEET 2. RESTORE PAVEMENT OVER TRENCH TO A DEPTH OF THE EXISTING ASPHALT WITH ITEM 301 BASE AND ITEM 448 SURFACE ASPHALT PER STANDARD DETAIL.
CONTRACTOR TO PROVIDE 48 HOURS NOTICE TO LOCAL BUSINESSES AND RESIDENTS BEFORE ANY WATER SERVICE INTERRUPTION.

APPURTENANCE TABLE

<table>
<thead>
<tr>
<th>POINT NO.</th>
<th>DESCRIPTION</th>
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HORIZONTAL SCALE IN FEET
VERTICAL SCALE

9/5/2019 2:42:22 PM, sarahc
NOTES:
ROAD CLOSURE IS ALLOWABLE BETWEEN THE HOURS OF 8:00 AM AND 4:00 PM. ROADWAY SHALL REMAIN OPEN DURING EVENING, OVERNIGHT AND MORNING. CONTRACTOR SHALL WORK THE LOCAL BUSINESSES, RESIDENTS AND SCHOOL BUSES TO ENABLE INGRESS AND EGRESS DURING CLOSURE. ROADWAY SHALL BE CLEARED AND CLEANS OF ALL HAZARDS AFTER EACH WORKDAY. PROVIDED WRITTEN NOTIFICATION TO THE WARREN COUNTY ENGINEERS OFFICE A MINIMUM OF 30 DAYS PRIOR TO CLOSURE.
PIPE SHALL NOT BE STORED OR STRUNG ALONG THE RIGHT-OF-WAY. ONLY PIPING INSTALLED EACH DAY SHALL BE LOCATED ALONG THE RIGHT-OF-WAY.
INSTALL WATER MAIN IN ROADWAY PER STANDARD DETAIL ON SHEET 2. RESTORE PAVEMENT OVER TRENCH TO A DEPTH OF THE EXISTING ASPHALT WITH ITEM 301 BASE AND ITEM 448 SURFACE ASPHALT PER STANDARD DETAIL.
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COLUMBIA ROAD WATER IMPROVEMENT PROJECT
PLAN & PROFILE - STA. 122+00 TO STA. 125+00

KLEINGERS GROUP
THE ELECTRONIC DATA FILES HAVE BEEN USED BY THE KLEINGERS GROUP FOR THE SOLE PURPOSE OF GENERATING THIS PLAN DRAWING. THE Kimberley Company LLC for the design and layout or any other use. THE USE OR REUSE OF ELECTRONIC DATA FILES IS AT THE USER'S RISK AND FULL LEGAL RESPONSIBILITY.
NOTES:
ROAD CLOSURE IS ALLOWABLE BETWEEN THE HOURS OF 8:00 AM AND 4:00 PM. ROADWAY SHALL BE CLOSED DURING THE NIGHT, SUNDAY, AND HOLIDAY.
CONTRACTOR SHALL NOTIFY THE LOCAL BUSINESS, RESIDENTS, AND SCHOOLS TO INFORM THEM OF THE HOURS DURING WHICH ROADWAY SHALL BE CLOSED. ROADWAY SHALL BE CLEARED AND SHOVELD DURING THE NIGHT, SUNDAY, AND HOLIDAY.

CONTRACTOR SHALL NOTIFY THE WARREN COUNTY ENGINEERS OFFICE A MINIMUM OF 30 DAYS PRIOR TO CLOSURE.

ROADWAY SHALL NOT BE STAGED OR STORED ALONG THE RIGHT-OF-WAY. ONLY PIPING INSTALLED EACH DAY SHALL BE LOCATED ALONG THE RIGHT-OF-WAY.

INSTALL WATER MAIN IN ROADWAY PER STANDARD DETAIL ON SHEET 2. RESTORE PAVEMENT OVER TRENCH TO A DEPTH OF THE EXISTING ASPHALT WITH ITEM 301 BASE AND ITEM 448 SURFACE ASPHALT PER STANDARD DETAIL.

CONTRACTOR TO PROVIDE 48 HOURS NOTICE TO LOCAL BUSINESSES AND RESIDENTS BEFORE ANY WATER SERVICE INTERRUPTION.