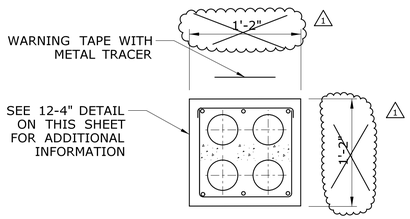
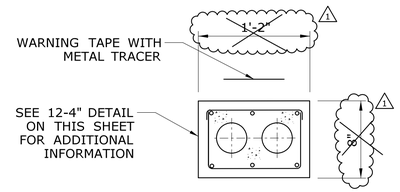
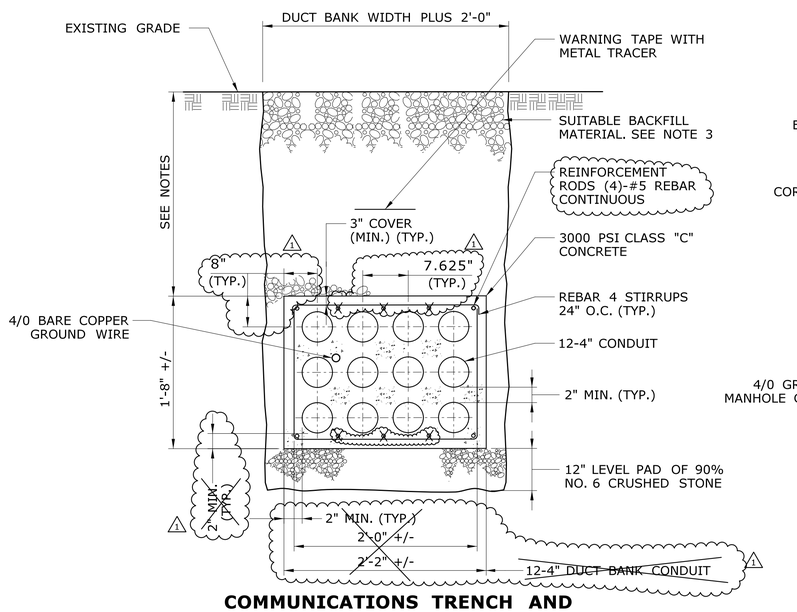


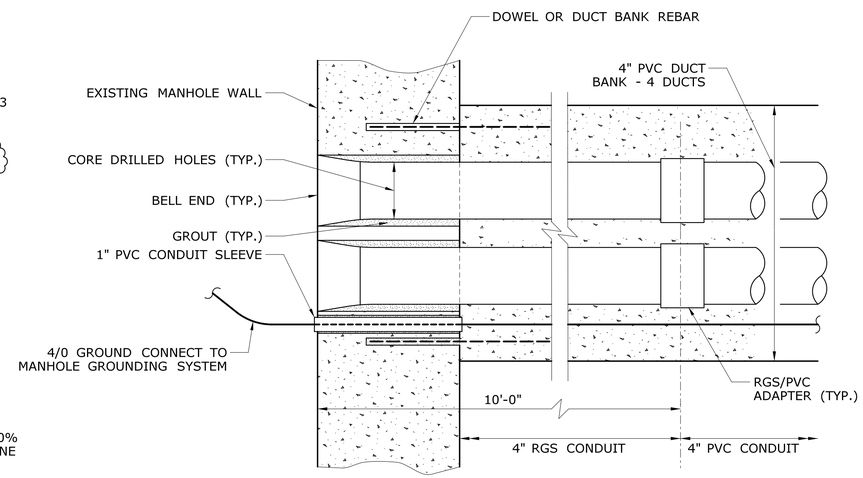
4-4" DUCT BANK CROSS SECTION



2-4" DUCT BANK CROSS SECTION



COMMUNICATIONS TRENCH AND 12-4" DUCT BANK CROSS SECTION



ELEVATION

DUCT BANK CONNECTION TO EXISTING MANHOLE DETAIL

DUCT BANK CONNECTION NOTES:

1. WHERE CONDUITS ENTER EXISTING MANHOLES, PROVIDE END BELLS FLUSH WITH INSIDE WALL OF MANHOLE. EACH CONDUIT WALL PENETRATION SHALL BE MADE WATERTIGHT. ALL PENETRATIONS SHALL BE CORE-DRILLED LARGE ENOUGH TO ACCOMMODATE CONDUIT PLUS FLUSH MOUNTED END BELL. THE DUCT BANK SHALL BE SUFFICIENTLY DOWELLED (OR USE DUCT BANK REINFORCING) TO THE MANHOLE USING EPOXY BONDED #5 REBAR TO IMPROVE SHEER STRESS AT THE POINT OF ENTRANCE. FULLY GROUT AROUND CONDUITS AND SEAL AGAINST END BELLS. BEFORE DUCT BANK IS POURED THE EXTERIOR OF THE EXISTING MANHOLE SHALL BE TREATED WITH AN APPROPRIATE TYPE OF WATERSTOP TO PROVIDE A WATERTIGHT JOINT.
2. PROVIDE CABLE SEALS AT CONDUIT ENTRANCES TO MANHOLES.

DUCT BANK NOTES:

1. PLACE COMPACTED GRANULAR FILL TO SEASONAL HIGH GROUND WATER ELEV 5.0.
2. SEE DEWATERING SPECIAL PROVISIONS.
3. SUITABLE BACKFILL MATERIAL SHALL BE ANY SUITABLE BACKFILL MATERIAL EXCAVATED FROM THE RESPECTIVE TRENCH OR REUSABLE CONTROLLED MATERIAL FROM THE WSA. GRANULAR FILL SHOULD BE USED IN ABSENCE OF SUITABLE BACKFILL MATERIAL AS DIRECTED BY THE ENGINEER.
4. THE CONTRACTOR SHALL TAKE ANY SURPLUS EXCAVATED MATERIAL FROM RESPECTIVE TRENCH TO THE WSA FOR TESTING AT THE END OF EACH DAY. THIS UNTESTED MATERIAL CANNOT BE USED AS BACKFILL ANYWHERE ELSE BUT THE TRENCH FROM WHICH IT WAS EXCAVATED. FOR ADDITIONAL INFORMATION REFER TO THE SPECIAL PROVISIONS.
5. FOR GENERAL CONDITIONS, THE MINIMUM BURIAL DEPTH FROM FINISHED GRADE TO TOP OF CONCRETE IS 18". FOR SPECIAL CONDITIONS (UNDER TRACKS) THE MINIMUM BURIAL DEPTH FROM THE BOTTOM OF TIE TO TOP OF CONCRETE IS 36". REFER TO UTILITY PROFILES FOR ADDITIONAL INFORMATION.
6. WARNING TAPE WITH METAL TRACER SHALL BE LAID 12" BELOW GRADE. REFER TO SPECIAL PROVISIONS.
7. THE HORIZONTAL PAY LIMITS FOR TRENCH EXCAVATION SHALL BE THE DUCT BANK WIDTH PLUS 24".
8. THE VERTICAL PAY LIMITS FOR TRENCH EXCAVATION SHALL BE 12" BELOW THE BOTTOM OF DUCT BANK.
9. ALL EMPTY OR UNUSED CONDUITS SHALL HAVE PLASTIC PULL ROPES INSTALLED.

STV Incorporated
185 Plains Road
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Jim Sherwonit
2019.03.13
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ADDENDUM NO. 2

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
1	03/08/2019	REMOVE DIMENSIONS, ADD DIMENSIONS EDIT CALLOUT	10.024.A2

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 3/13/2019

DESIGNER/DRAFTER: PE
CHECKED BY: TB
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\COM-302_A2_CNS_SHEET_0300-0138.dgn

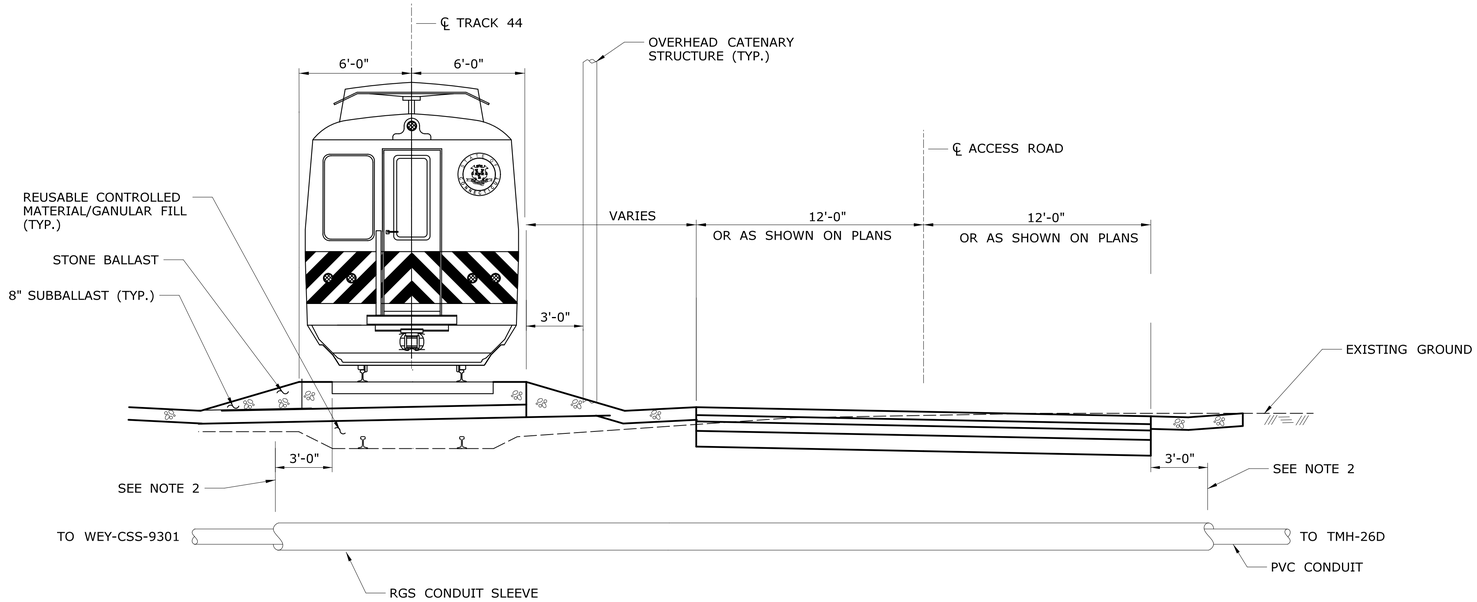
SIGNATURE/BLOCK:
STV Incorporated
185 Plains Road
Suite 208E
Milford, CT 06461

PROJECT TITLE:
NEW HAVEN RAIL YARD FACILITIES IMPROVEMENTS WEST END YARD

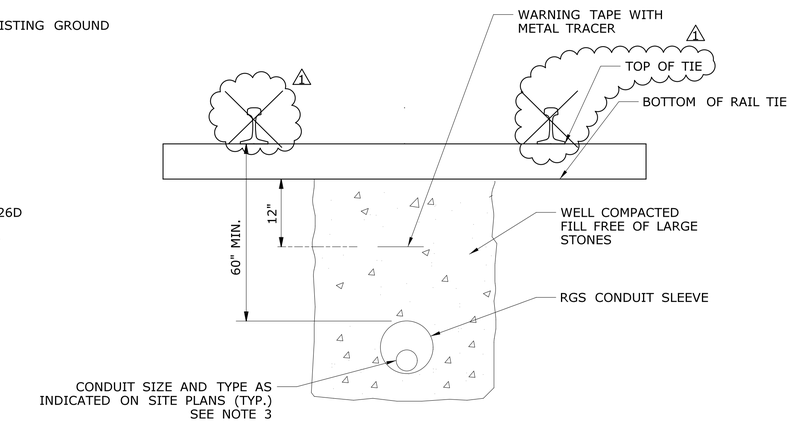
TOWN: **NEW HAVEN**

DRAWING TITLE: **DUCT BANK DETAILS**

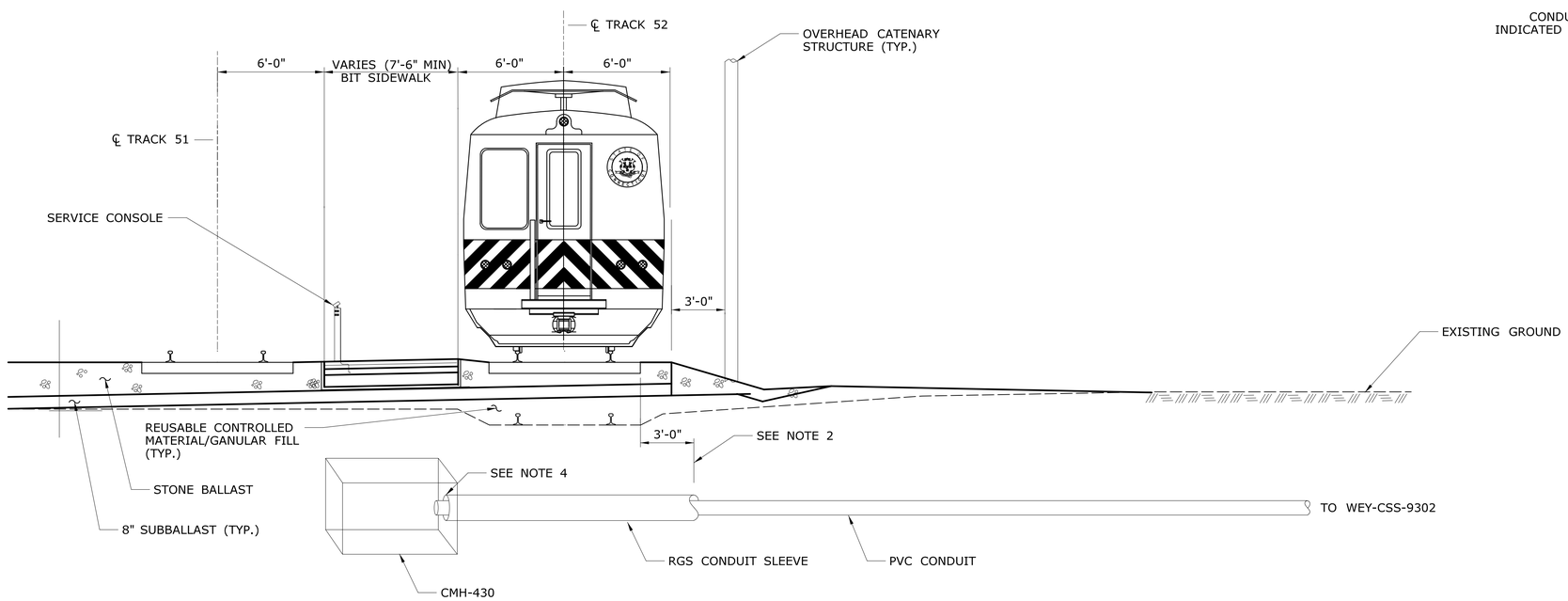
PROJECT NO. **0300-0138**
DRAWING NO. **COM-302**
SHEET NO. **10.024.A2**



CONDUIT SLEEVE DETAIL #1
N.T.S.



CONDUIT SLEEVE DETAIL #3
N.T.S.



CONDUIT SLEEVE DETAIL #2
N.T.S.

NOTES:

1. FOR GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS SEE DWG. NO. COM-001.
2. CONDUIT SLEEVE SHALL CONTINUE A MINIMUM OF 3'-0" PAST THE END OF THE RAILROAD TIE OR EDGE OF PAVEMENT ABOVE.
3. RGS CONDUIT SLEEVE SHALL BE 1 3" RGS CONDUIT.
4. IF RGS CONDUIT SLEEVE CANNOT CONTINUE A MINIMUM OF 3'-0" PAST THE END OF THE RAILROAD, RGS CONDUIT SLEEVE SHALL CONTINUE TO EXTERIOR OF COMMUNICATIONS MANHOLE, BUT SHALL NOT ENTER MANHOLE.
5. 1 THE INSTALLATION OF A SINGLE 3" RGS SLEEVE WITH A 1" DIA. PVC CONDUIT WILL BE INSTALLED UNDER A CONTINUOUS WEEKEND OUTAGE BEGINNING ON FRIDAY NIGHT AT 10PM AND FINISHING ON SUNDAY NIGHT. TRACKS SHALL BE REMOVED FROM SERVICE BY MNR FORCES.
6. THE CONTRACTOR SHALL PERFORM HIS WORK WITH THE TRACK IN PLACE BUT OUT OF SERVICE AND HE MUST CONFIRM THE EXISTING TRACK ELEVATIONS HAVE NOT CHANGED AFTER CONSTRUCTION.
7. THE CONTRACTOR SHALL EXCAVATE THE TRENCH FOR THE 3" DIAMETER SLEEVE, INSTALL THE SLEEVE AND 1" CONDUIT AND BACKFILL AND COMPACT TRENCH AND INSTALL NEW BALLAST AND SUBBALLAST.

ADDENDUM NO. 2

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
1	03/08/2019	REVISE NOTE 3 ADD NOTES 5, 6 AND 7 EDIT DET #3	10.026.A2

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Plotted Date: 3/13/2019

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SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\COM-304_A2_CNS_SHEET_0300-0138.dgn

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185 Plains Road
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PROJECT TITLE:
NEW HAVEN RAIL YARD FACILITIES IMPROVEMENTS WEST END YARD

TOWN: **NEW HAVEN**

DRAWING TITLE: **CONDUIT SLEEVE DETAILS**

PROJECT NO. **0300-0138**
DRAWING NO. **COM-304**
SHEET NO. **10.026.A2**