

# CITY OF HERMITAGE

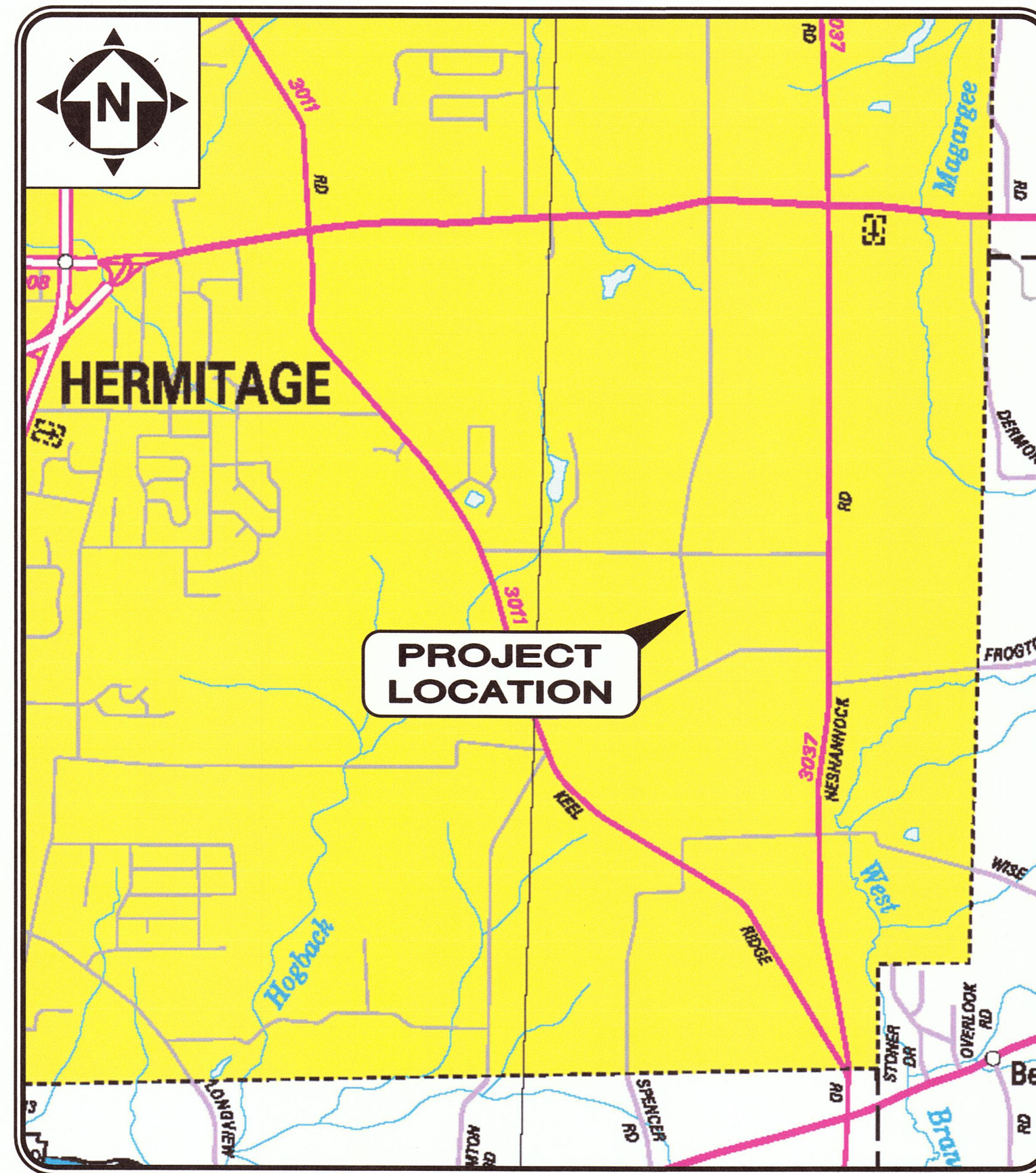
## SOUTH DARBY ROAD STORMWATER AND ROADWAY IMPROVEMENTS PROJECT

### HERMITAGE, PENNSYLVANIA

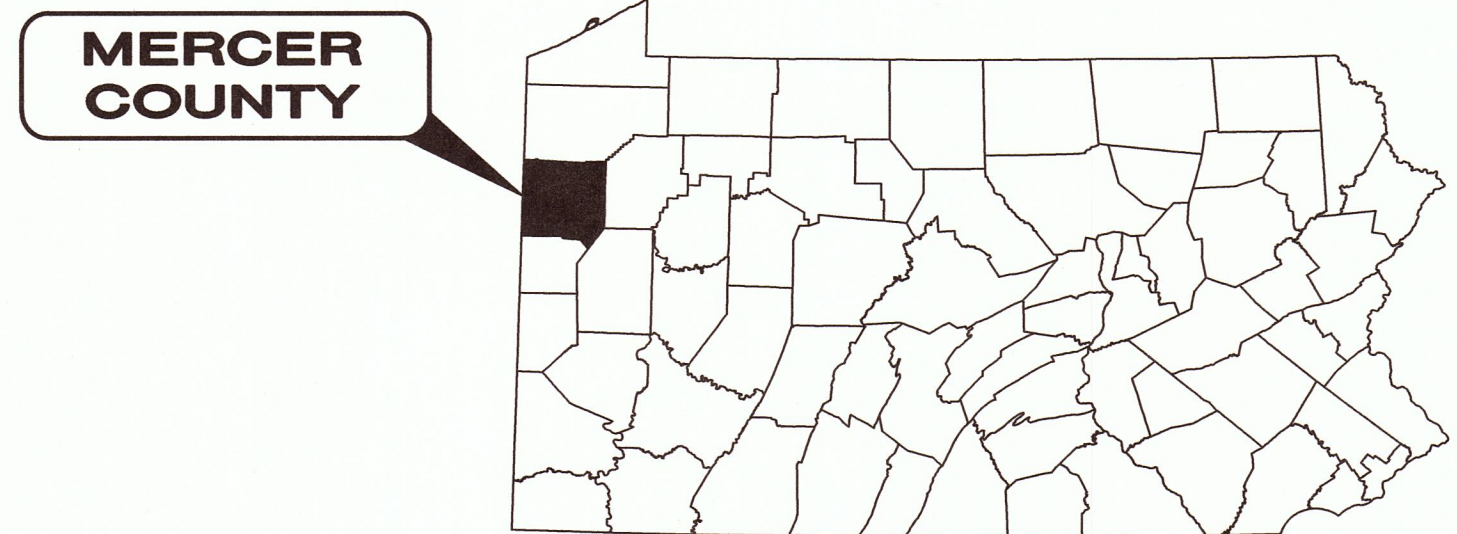


INDEX OF SHEETS		
DRAWING NAME	SHEET TITLE:	SHEET NUMBER
TS	TITLE SHEET	1
GN	GENERAL NOTES & LEGEND	2
SVC	SURVEY CONTROL PLAN	3
TYP-1	ROADWAY TYPICAL SECTIONS	4
EC-1 - EC-3	EXISTING CONDITIONS PLAN	5-7
DP-1 - DP-3	DEMOLITION PLAN	8-10
PP-1 - PP-5	PLAN & PROFILE	11-15
ESC-1	EROSION & SEDIMENTATION CONTROL	16
CD-1	CONSTRUCTION DETAILS	17
S-1 - S-8	SECTIONS 1 - 8	18-25

MAY, 2019



LOCATION MAP  
NOT TO SCALE



**APPROVALS:**

CITY MANAGER MR. GARY P. HINKSON 5/14/19  
DATE

**BOARD OF COMMISSIONERS:**

- MR. WILLIAM J. MODER, PRESIDENT
- MR. DUANE J. PICCIRILLI, VICE-PRESIDENT
- MR. LOUIS E. SQUATRITO, JR.
- MR. MICHAEL T. MUHA
- MR. WILLIAM G. MCCONNELL, JR.

**CITY OFFICIALS:**

- MR. GARY P. HINKSON, CITY MANAGER
- MR. GARY GULLA, ASSISTANT CITY MANAGER
- MR. BRETT STEDMAN, SOLICITOR

**PA ONE CALL:**  
ACT 287, AS AMENDED



PENNSYLVANIA ACT 287 (1974) AS AMENDED BY PENNSYLVANIA ACT 121 (2008), REQUIRES NOTIFICATION BY EXCAVATORS, DESIGNERS, OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN THE COMMONWEALTH.

**PA ONE CALL DESIGN SERIAL NUMBERS:**  
20190092209 - SOUTH DARBY ROAD

**PA ONE CALL-UTILITY LIST:**

- DIVERSIFIED GAS AND OIL (GAS)
- VERIZON PENNSYLVANIA, LLC (COMMUNICATIONS)
- HERMITAGE MUNICIPAL AUTHORITY (SEWER)
- LAUREL MOUNTAIN MIDSTREAM (GAS)
- NATIONAL FUEL GAS DISTRIBUTION CO. (GAS)
- PENNSYLVANIA POWER CO (ELECTRIC)
- AQUA PA (WATER)

- UNDERGROUND BUILDING SERVICE UTILITY LINES ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING, MAINTAINING AND REPLACING AS NECESSARY TO ENSURE CONTINUAL SERVICE TO BUILDINGS.
- THE CONTRACTOR IS RESPONSIBLE TO CALL PENNSYLVANIA ONE CALL SYSTEM, INC. @ 1-800-242-1776, THREE WORKING DAYS PRIOR TO CONSTRUCTION.



ENGINEER'S PROJECT No. 181039

I, May Alexander Garfou, DO HEREBY CERTIFY PURSUANT TO THE PENALTIES OF 18 PA. C.S.A. SEC. 4904 TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THAT THE INFORMATION CONTAINED IN THE ACCOMPANYING PLANS, SPECIFICATIONS, AND REPORTS HAS BEEN PREPARED IN ACCORDANCE WITH THE ACCEPTED ENGINEERING PRACTICE, IS TRUE AND CORRECT, AND IS IN CONFORMANCE WITH CHAPTER 105 OF THE RULES AND REGULATIONS OF THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

NO	REVISION	DATE

CITY OF HERMITAGE  
SOUTH DARBY ROAD STORMWATER AND ROADWAY IMPROVEMENTS PROJECT  
HERMITAGE, PENNSYLVANIA  
TITLE SHEET

PROJECT NO.	181039
DISCIPLINE	CIVIL
SHEET NAME	TS
SHEET	01
OF	25

**GENERAL NOTES:**

- 1. ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THIS PROJECT'S SPECIFICATIONS AND CONSTRUCTION DRAWINGS, AS WELL AS ALL STANDARDS AND SPECIFICATIONS ESTABLISHED BY THE OWNER.
2. A PRE-CONSTRUCTION CONFERENCE SCHEDULED BY THE ENGINEER SHALL BE HELD PRIOR TO ANY WORK STARTING.
3. THE CONTRACTOR IS TO PROVIDE RED MARKED AS-BUILT DRAWINGS IN ACCORDANCE WITH THE SPECIFICATIONS...
17. ALL WORK COMPLETED UNDER THIS CONTRACT SHALL COMPLY WITH THE U.S. DEPARTMENT OF LABOR AND OCCUPATIONAL SAFETY AND HEALTH ACT, AS WELL AS LOCAL AND STATE REGULATIONS.

**EXISTING CONDITIONS NOTES:**

- 1. THE EXISTING CONDITIONS SHOWN ON THE PLANS ARE TAKEN FROM A TOPOGRAPHIC SURVEY PERFORMED BY CT CONSULTANTS, INC. IN JANUARY OF 2019.
2. EXISTING STRUCTURES, GRADES, PIPING, ETC. ARE SHOWN IN APPROXIMATE LOCATION ON THE PLANS.
3. IT IS THE OBLIGATION AND RESPONSIBILITY OF THE CONTRACTOR TO TOTALLY FAMILIARIZE HIMSELF WITH THE GROUND CONDITIONS...
5. ALL KNOWN ABOVE AND BELOW GROUND UTILITIES HAVE BEEN NOTED ON THE DRAWINGS.

**UTILITIES NOTES:**

- 1. AT LEAST TWO WORKING DAYS PRIOR TO COMMENCING CONSTRUCTION OPERATIONS IN AN AREA WHICH MAY INVOLVE UNDERGROUND UTILITY FACILITIES.
2. THE CONTRACTOR SHALL NOTIFY, AT LEAST 48 HOURS BEFORE BREAKING GROUND, ALL PUBLIC SERVICE CORPORATIONS HAVING WIRE, POLES, PIPES, CONDUITS OR OTHER STRUCTURES THAT MAY BE AFFECTED BY THIS OPERATION.

**REPLACEMENT OF EXISTING TRAFFIC SIGNS & PAVEMENT MARKINGS NOTES:**

- 1. ALL EXISTING GROUND MOUNTED AND POLE TRAFFIC SIGNS THAT CONFLICT WITH, OR ARE IN THE PATH OF THE PROPOSED IMPROVEMENTS SHALL BE TEMPORARILY RELOCATED.
2. ALL WORK ASSOCIATED WITH REPLACING EXISTING TRAFFIC SIGNS AND PAVEMENT MARKINGS...
3. CONTRACTOR SHALL RESTORE ALL ROADWAY PAVEMENT MARKINGS PER PENNDOT PUB 111 TRAFFIC CONTROL - PAVEMENT MARKINGS AND SIGNING STANDARDS.

**PROTECTION OF THE PUBLIC:**

- 1. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF THE PUBLIC FROM ANY HAZARDS CAUSED BY THE CONSTRUCTION OF THIS PROJECT. THE CONTRACTOR SHALL PROVIDE SIGNS, BARRICADES, FENCING, PLATES, COVERS, ETC. NEEDED TO PROVIDE THIS PROTECTION.

**CONSTRUCTION NOTES:**

- 1. THERE SHALL BE NO DEVIATION FROM THE APPROVED PLANS UNLESS OTHERWISE APPROVED BY THE OWNER IN WRITING.
2. THE CONTRACTOR SHALL IMPLEMENT SOIL EROSION AND SEDIMENTATION CONTROL MEASURES IN ACCORDANCE WITH THE SOIL EROSION AND SEDIMENTATION CONTROL REGULATIONS...
15. DISCHARGING DREDGED AND/OR FILL MATERIAL TO THE STREAM IS PROHIBITED.

**RESTORATION NOTES:**

- 1. THE CONTRACTOR SHALL RESTORE ALL AREAS DISTURBED BY THE CONSTRUCTION TO PRE-CONSTRUCTION CONDITIONS OR BETTER IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.
2. ALL GRASS AREAS DISTURBED SHALL BE FINE GRADED AND ROCKS LARGER THAN 3/8 INCH DIAMETER SHALL BE REMOVED.

**MAINTENANCE OF TRAFFIC NOTES:**

- 1. BEFORE ANY WORK MAY BEGIN IN THE RIGHT-OF-WAY, A TRAFFIC CONTROL PLAN MUST BE SUBMITTED AND APPROVED BY THE OWNER.
2. THE CONTRACTOR SHALL PROVIDE MAINTENANCE OF TRAFFIC AND THE PROTECTION OF THE TRAVELING PUBLIC APPROACHING THE CONSTRUCTION AREA...
4. IMMEDIATELY UPON COMPLETION OF THE WORK, THE DEVICES SHALL BE REMOVED BY THE CONTRACTOR AND UNLESS OTHERWISE SPECIFIED, WILL REMAIN HIS PROPERTY.

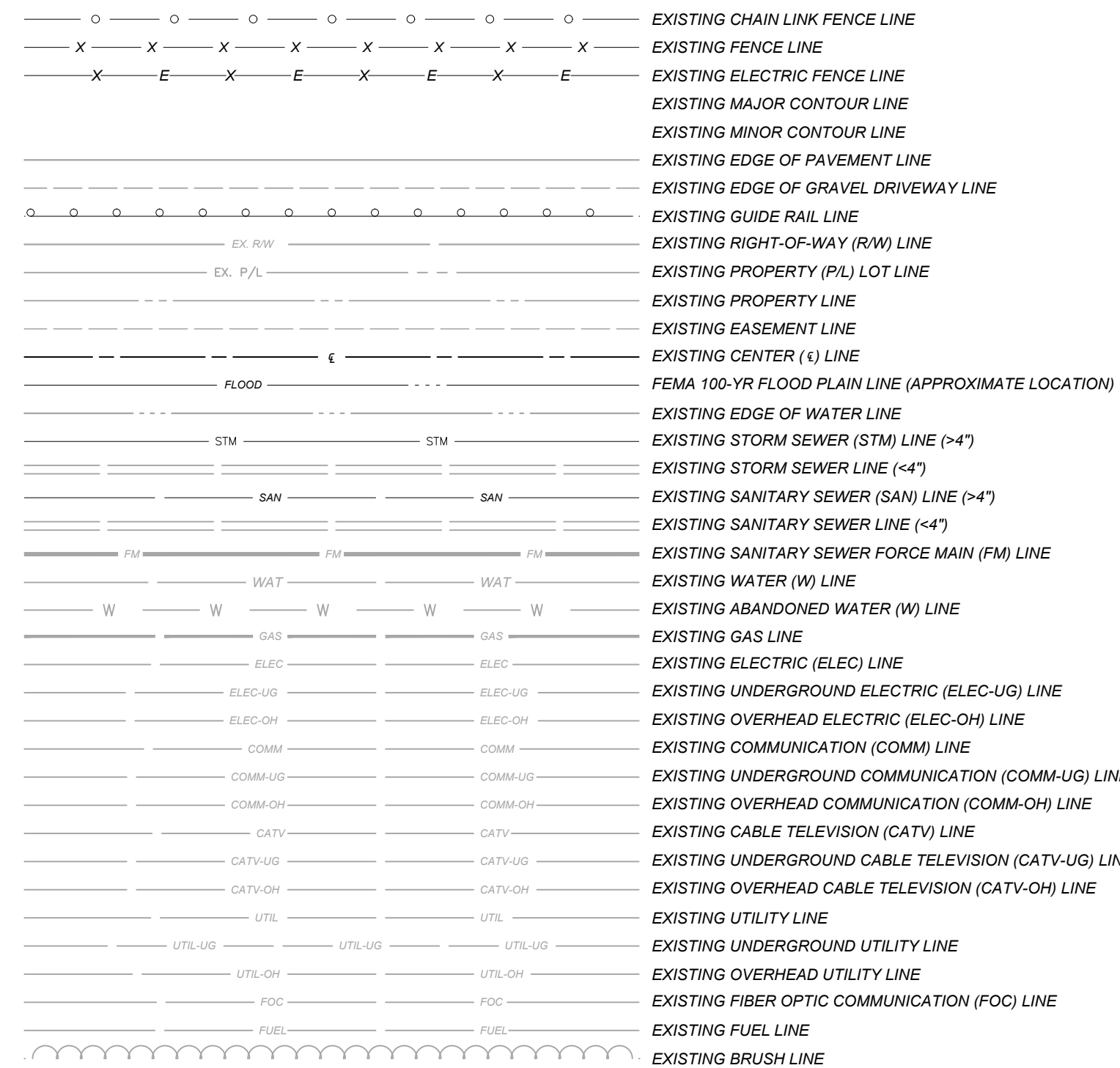
**PENNDOT RC STANDARD REFERENCES (PUB 72M):**

- 1. RC-39M - STORM MANHOLES
2. RC-45M - INLET TOPS, GRATES, AND FRAMES
3. RC-46M - INLET BOXES
4. RC-70M - PERIMETER CONTROL DEVICES
5. RC-72M - INLET AND OUTLET PROTECTION
6. RC-75M - STRAW BALE BARRIER
7. RC-77M - ROCK CONSTRUCTION ENTRANCE

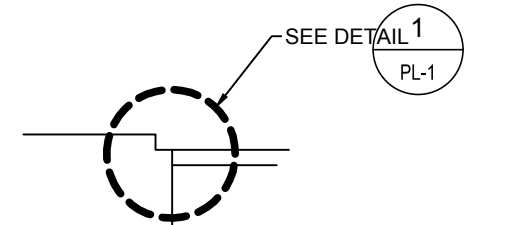
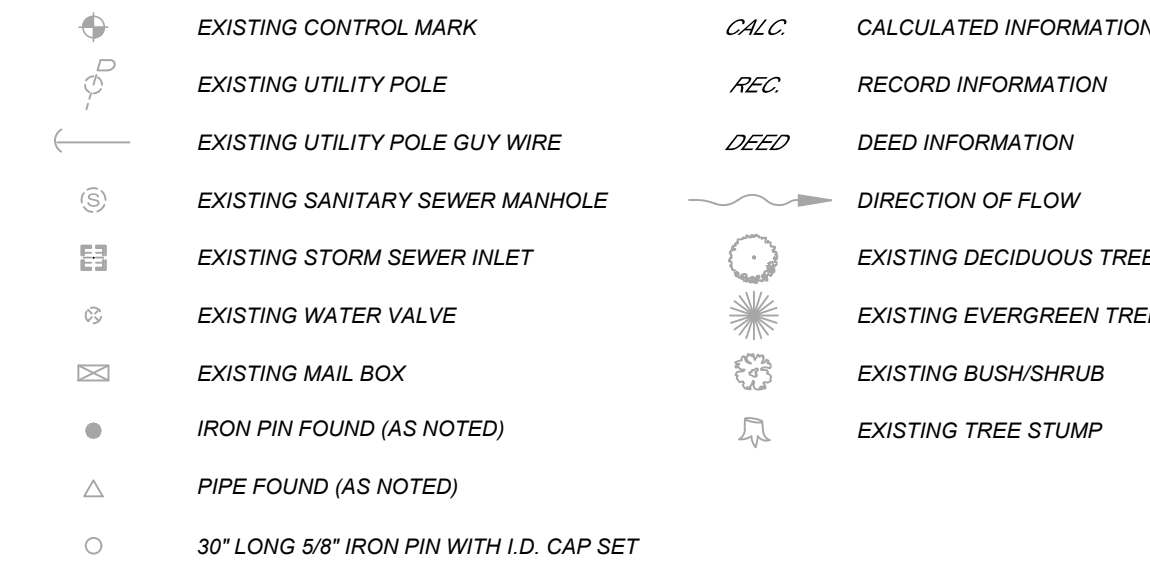
**GENERAL SYMBOLOGY NOTES:**

- 1. THIS IS A STANDARD SHEET SHOWING COMMONLY USED SYMBOLOGY. ALL SYMBOLS ARE NOT NECESSARILY USED ON THIS PROJECT.
2. SCREENING OR SHADING OF WORK IS USED TO INDICATE EXISTING COMPONENTS OR TO DE-EMPHASIZE NEW IMPROVEMENTS...
3. SYMBOLOGY OR DIAGMATICAL LEGENDS MAY BE SHOWN ON INDIVIDUAL SHEETS FOR SCHEDULES, DIAGRAMS, DETAILS, SCHEMATICS OR EQUIPMENT.

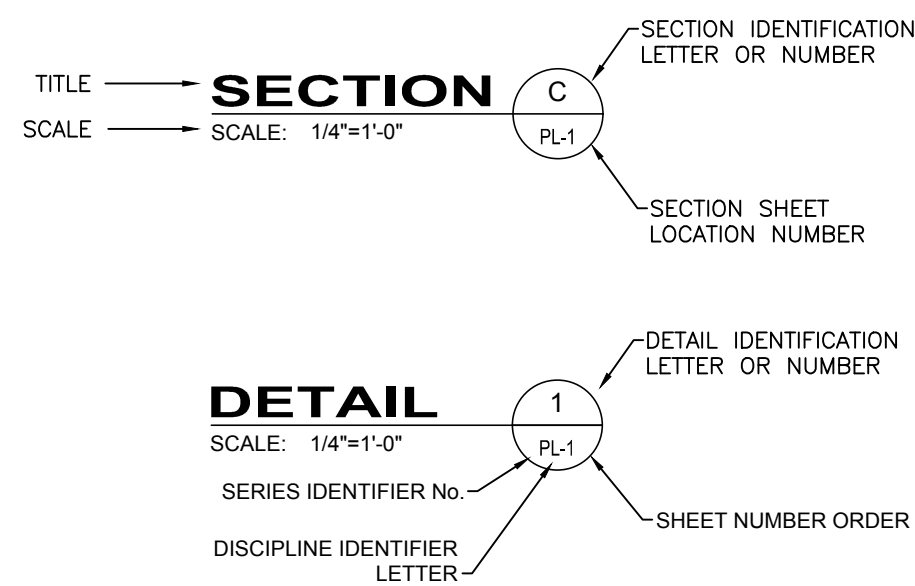
**EXISTING LINE SYMBOLOGY:**



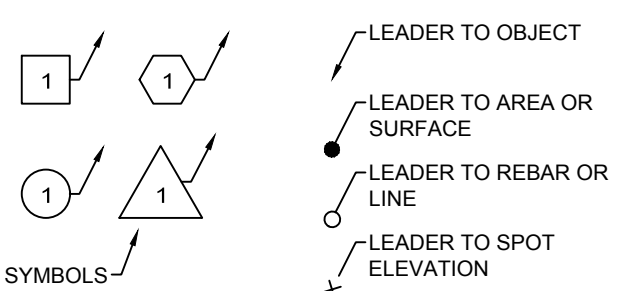
**EXISTING PLAN SYMBOLOGY:**



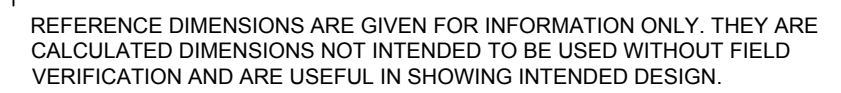
**DETAIL DESIGNATION:**



**SECTIONS & DETAILS CONVENTION:**



**REFERENCE DIMENSION:**



**NOTE DESIGNATION:**

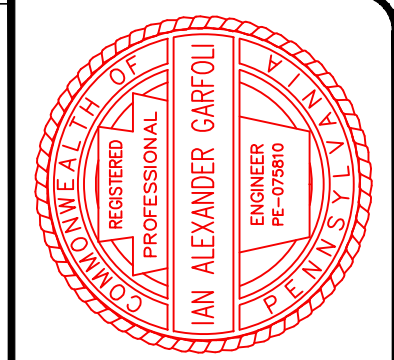
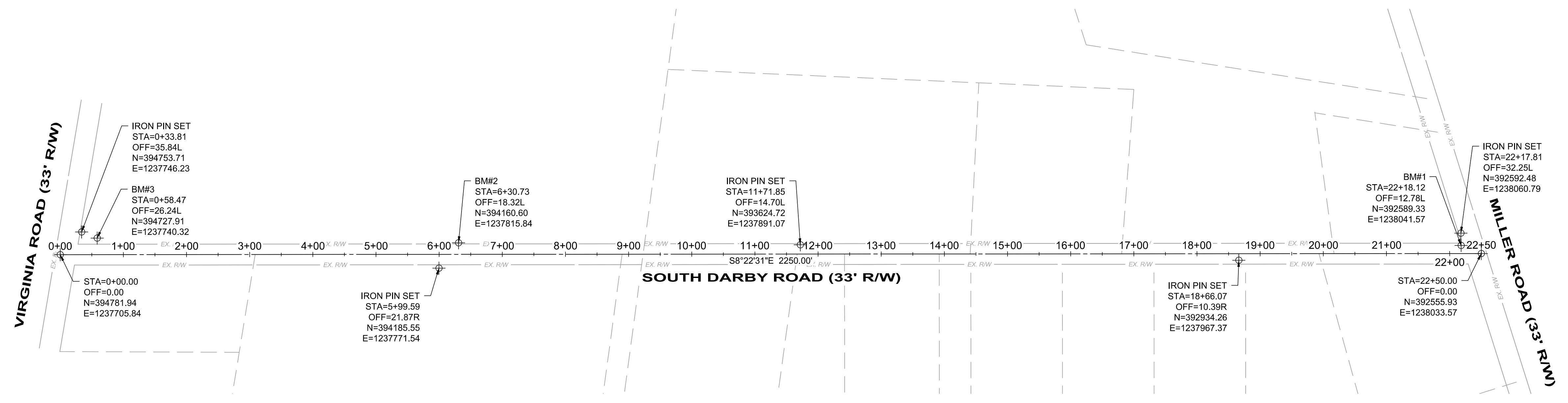
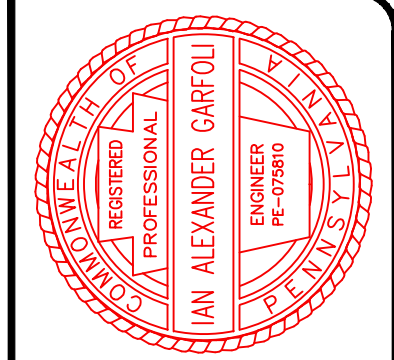


Table with columns for DESIGN, ISSUED FOR, ISSUE DATE, SCALE, DESIGNED BY, DRAWN BY, CHECKED BY, NO, REVISION, DATE. Includes project information for South Darby Road Stormwater and Roadway Improvements Project.

CITY OF HERMITAGE
SOUTH DARBY ROAD STORMWATER AND ROADWAY IMPROVEMENTS PROJECT
HERMITAGE, PENNSYLVANIA
GENERAL NOTES & LEGEND

PROJECT NO. 181039
DISCIPLINE CIVIL
SHEET 02 OF 25



**SURVEY CONTROL PLAN**



**BENCHMARK NOTES:**

1. **BM#1**  
BEING A CHISELED "X" ON THE NORTHWESTERLY CORNER OF A CATCH BASIN LOCATED AT THE NORTHEASTERLY CORNER OF THE INTERSECTION OF S DARBY ROAD AND MILLER ROAD. SAID CATCH BASIN BEING APPROXIMATELY 25 FEET NORTHEASTERLY FROM THE CENTERLINE INTERSECTION OF SAID ROADS.  
ELEV.=1141.52'
2. **BM#2**  
BEING A CHISELED "X" ON THE WESTERLY RIM OF A SANITARY MAN BEING ON THE EASTERLY SIDE ON S DARBY ROAD. SAID MANHOLE BEING IN THE FRONT YARD OF STREET ADDRESS 1227, AND BEING APPROXIMATELY 12 FEET EASTERLY FROM THE EAST EDGE OF ASPHALT OF SAID S DARBY ROAD.  
ELEV.=1159.56'
3. **BM#3**  
BEING A LANDSCAPE SPIKE ON THE WEST SIDE OF POWER POLE NUMBER 276-118, SAID POLE BEING AT THE NORTHEASTERLY CORNER OF THE INTERSECTION OF DARBY ROAD AND VIRGINIA ROAD AND APPROXIMATELY 16 FEET EASTERLY FROM THE EASTERN EDGE OF ASPHALT OF SAID S DARBY ROAD.  
ELEV.=1176.66'

NO	REVISION	DATE

ISSUED FOR:	DESIGN

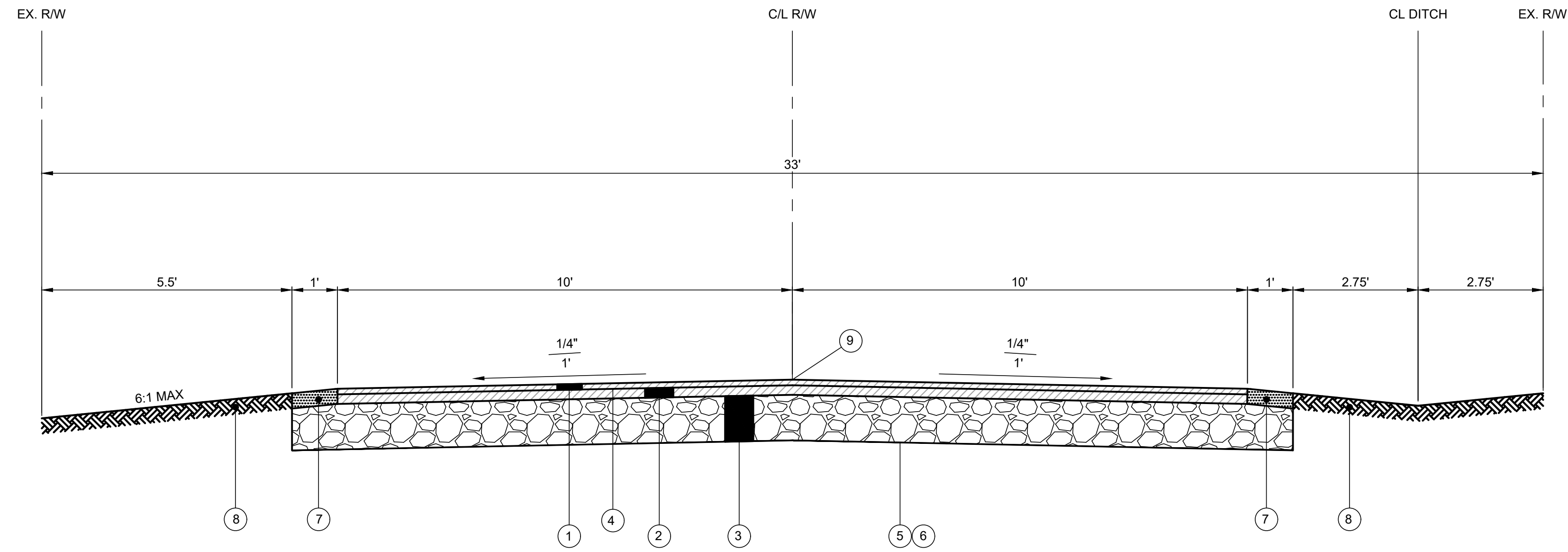
  

ISSUE DATE:	SCALE:	DESIGNED BY:	DRAWN BY:	CHECKED BY:
2/20/2019	AS SHOWN	PMT	PMT	IAG

**CITY OF HERMITAGE**  
**SOUTH DARBY ROAD STORMWATER AND ROADWAY IMPROVEMENTS PROJECT**  
 HERMITAGE, PENNSYLVANIA

**SURVEY CONTROL PLAN**

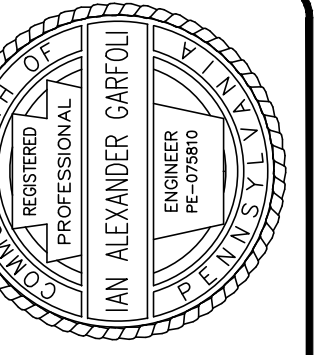
PROJECT NO.	
181039	
DISCIPLINE	
CIVIL	
SHEET NAME	
SVC	
SHEET	OF
03	25



TYPICAL SECTION - FULL DEPTH REPLACEMENT  
SOUTH DARBY ROAD, STA. 0+19.88 TO STA. 22+32.29

**PROPOSED LEGEND**

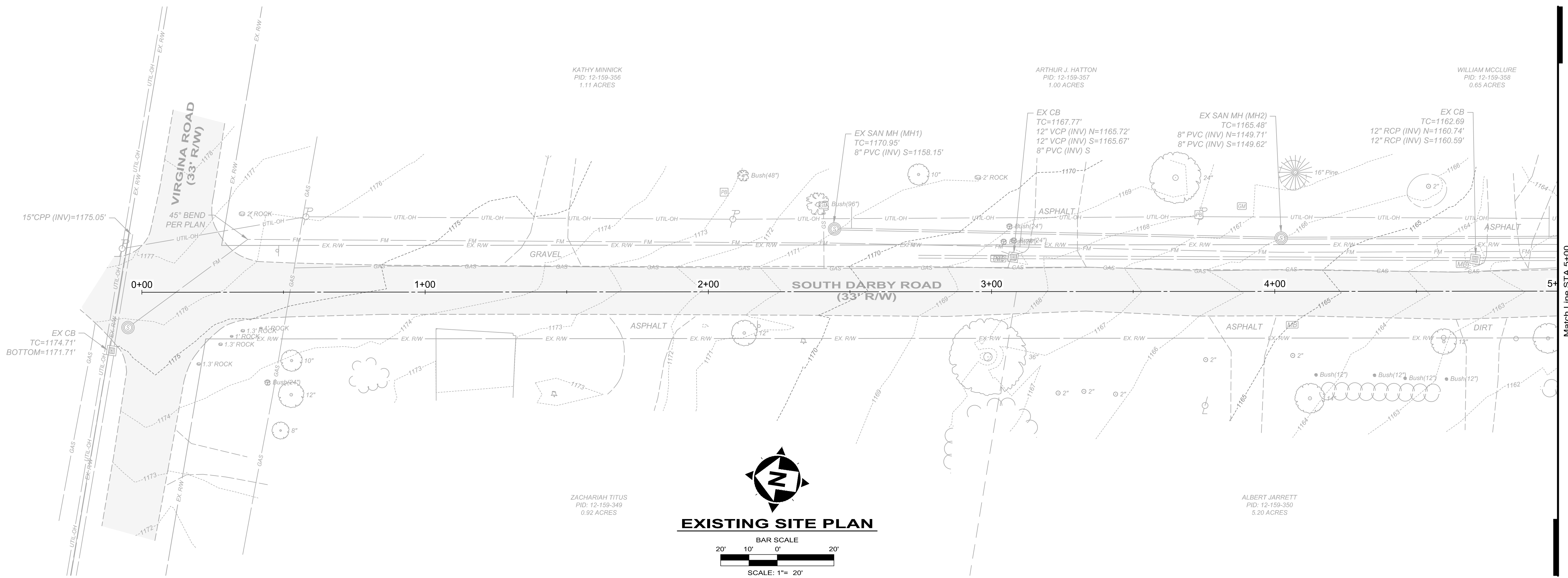
- ① SUPERPAVE ASPHALT MIXTURE DESIGN, HMA WEARING COURSE, PG64-22, 0.3 TO <3 MILLION ESALS, 9.5 MM MIX, SRL-H, 1.5" DEPTH
- ② SUPERPAVE ASPHALT MIXTURE DESIGN, HMA BINDER COURSE, PG64-22, 0.3 TO <3 MILLION ESALS, 19.00 MM MIX, 2.5" DEPTH
- ③ 12" - PENNDOT SECTION 350, NO. 2A SUBBASE MATERIAL COMPACTED 100% STANDARD PROCTOR
- ④ BITUMINOUS TACK COAT
- ⑤ GEOTEXTILE FABRIC, CLASS IV, TYPE A
- ⑥ SUBGRADE SHALL BE COMPACTED AND PREPARED ACCORDING TO PENNDOT SECTIONS 206 & 210
- ⑦ PENNDOT ITEM 651, TYPE 1A
- ⑧ PROPOSED GRADING WITH CLEAN TOP SOIL (SEED AND MULCHING)
- ⑨ RUBBERIZED ASPHALT SEALANT



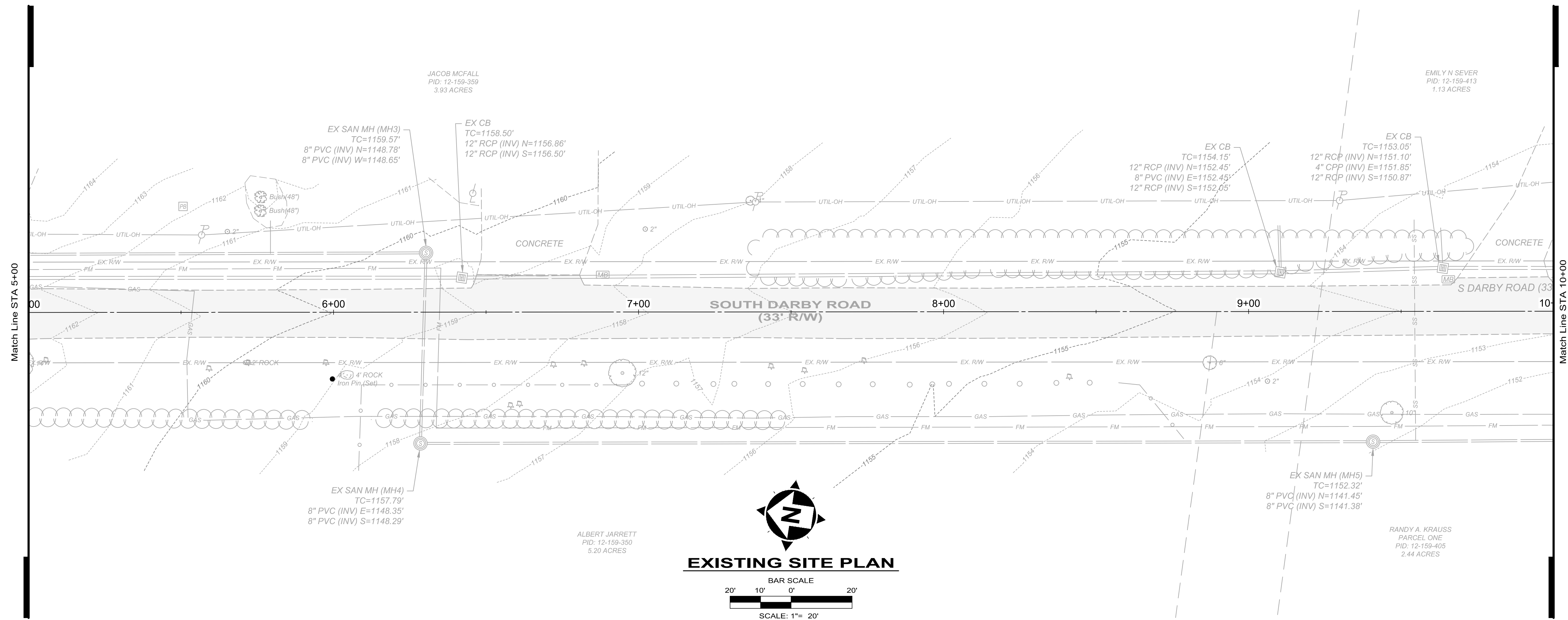
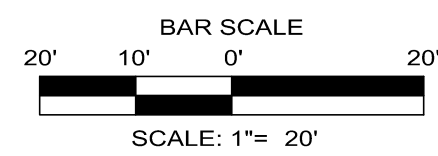
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**CITY OF HERMITAGE**  
**SOUTH DARBY ROAD STORMWATER AND ROADWAY IMPROVEMENTS PROJECT**  
HERMITAGE, PENNSYLVANIA  
**ROADWAY TYPICAL SECTIONS**

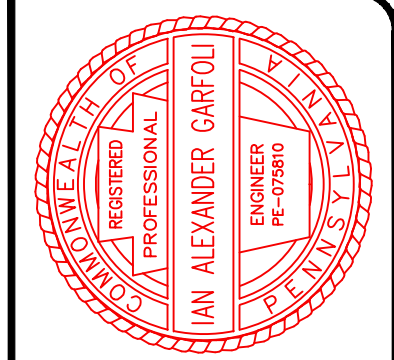
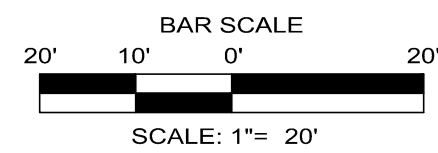
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DISCIPLINE	<b>CIVIL</b>
SHEET NAME	<b>TYP-1</b>
SHEET	<b>04</b>
OF	<b>25</b>



**EXISTING SITE PLAN**



**EXISTING SITE PLAN**



NO	REVISION	DATE

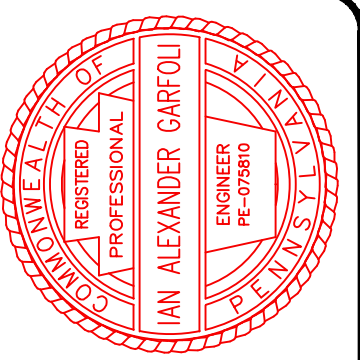
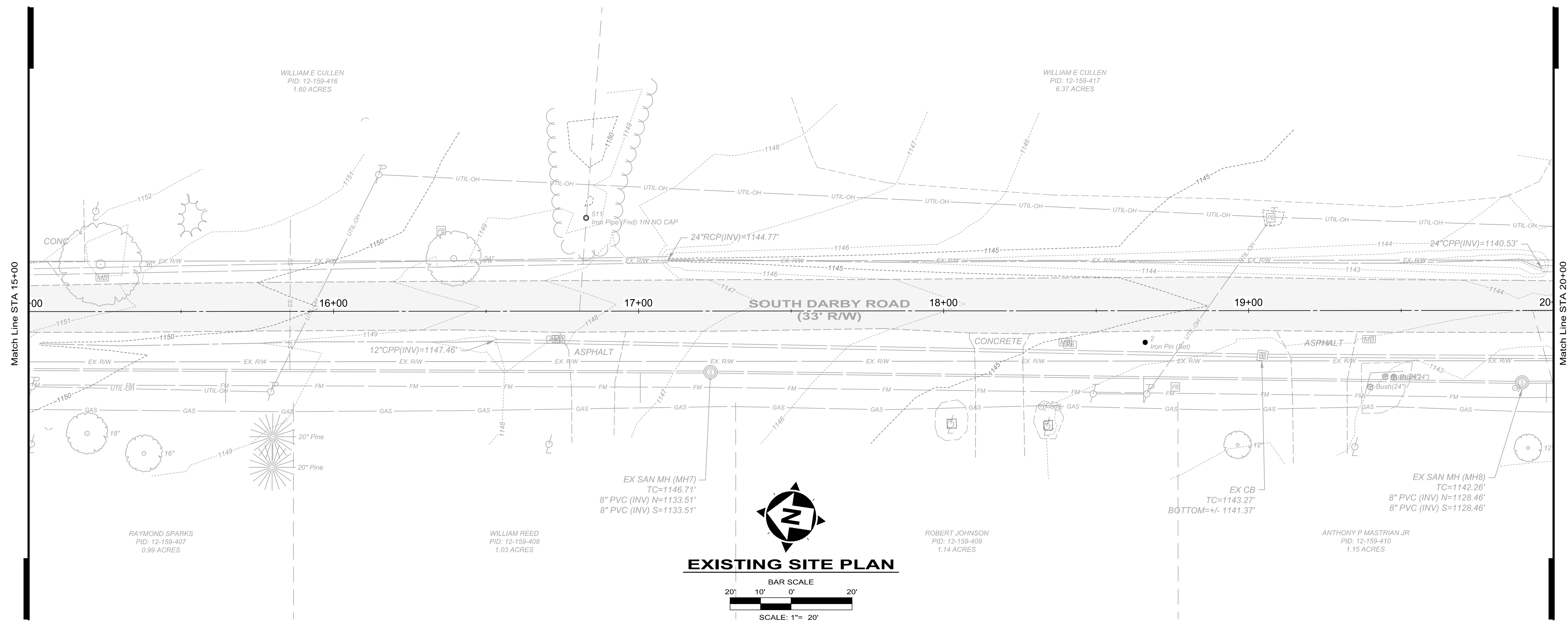
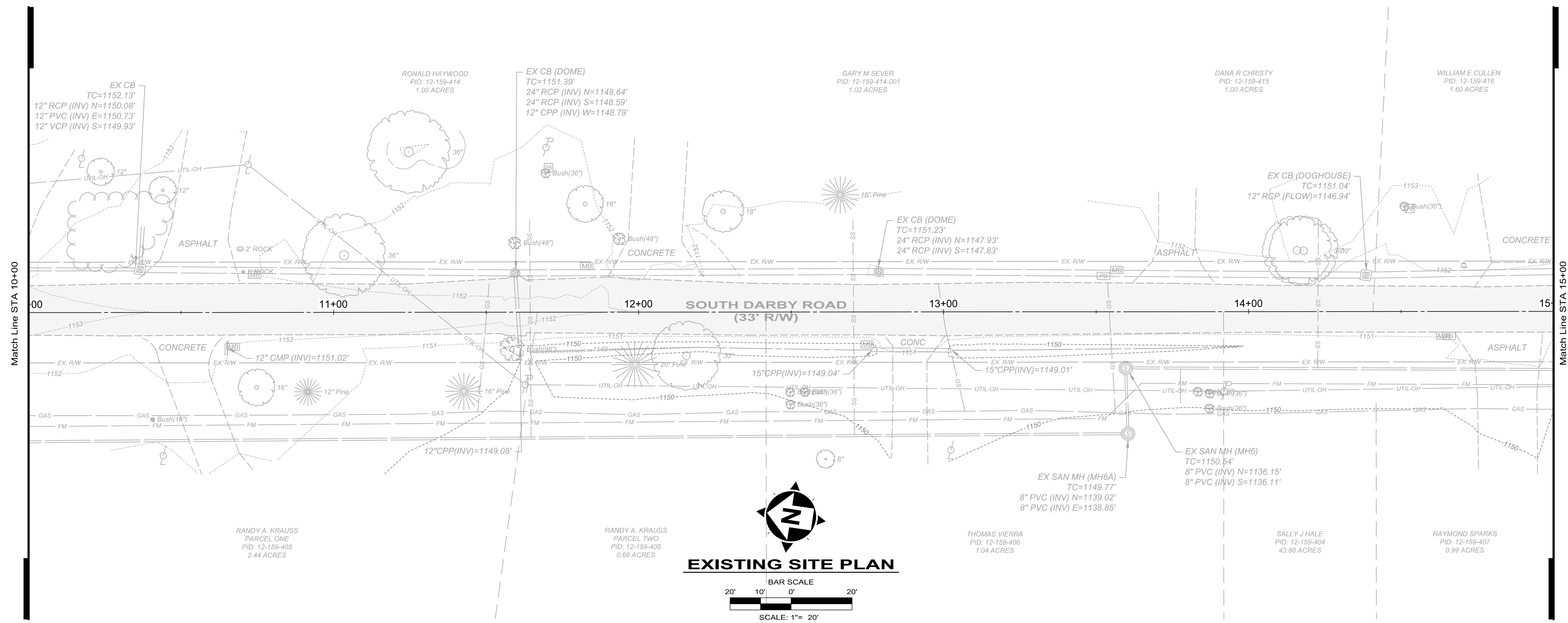
  

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**CITY OF HERMITAGE**  
**SOUTH DARBY ROAD STORMWATER AND**  
**ROADWAY IMPROVEMENTS PROJECT**  
 HERMITAGE, PENNSYLVANIA

**EXISTING SITE PLAN**

PROJECT NO.	<b>181039</b>
DISCIPLINE	<b>CIVIL</b>
SHEET NAME	<b>EC-1</b>
SHEET	<b>05</b>
OF	<b>25</b>



NO	REVISION	DATE

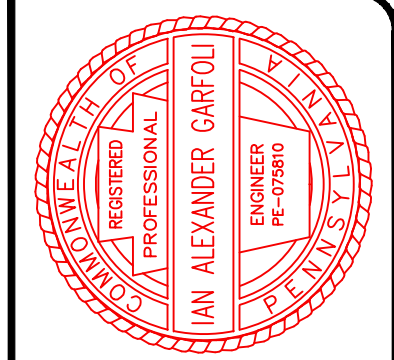
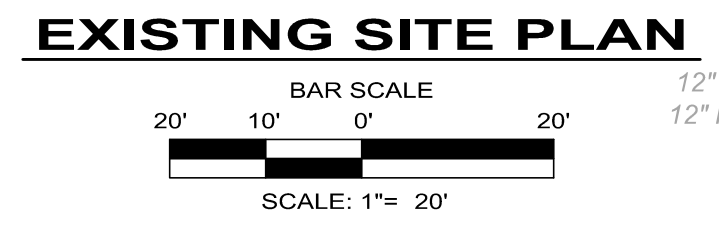
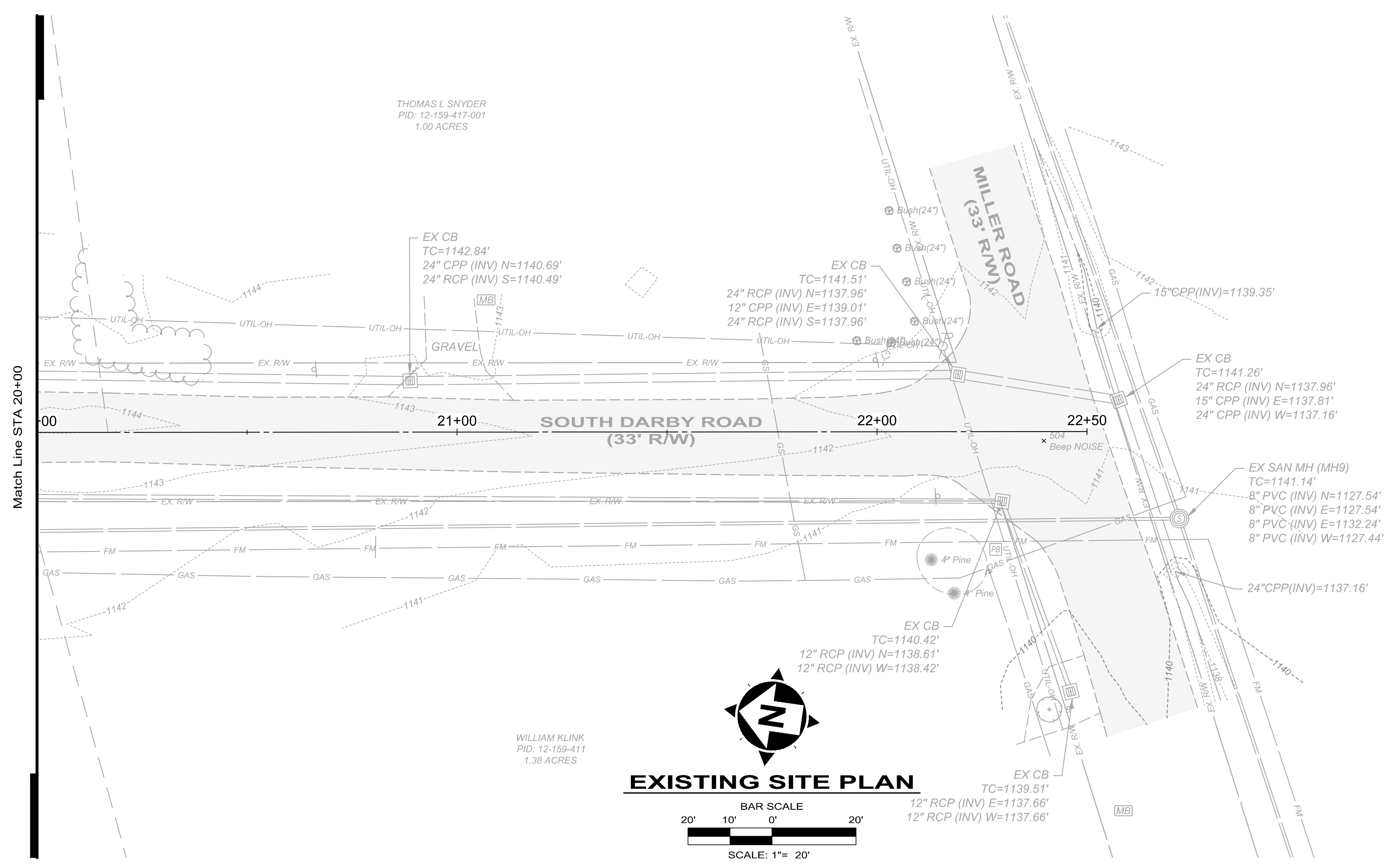
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ISSUE DATE:	2/20/2019
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**SOUTH DARBY ROAD STORMWATER AND**  
**ROADWAY IMPROVEMENTS PROJECT**  
 HERMITAGE, PENNSYLVANIA

**EXISTING SITE PLAN**

PROJECT NO.	<b>181039</b>
DISCIPLINE	<b>CIVIL</b>
SHEET NAME	<b>EC-2</b>
SHEET	<b>06</b>
OF	<b>25</b>

H:\2018\181039\DWG\SETB\_C\_181039\_EXISTING CONDITIONS PLAN.DWG - EC-2 - 2/20/2019 2:10:10 PM - PHILIP TATE



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SCALE:	AS SHOWN			
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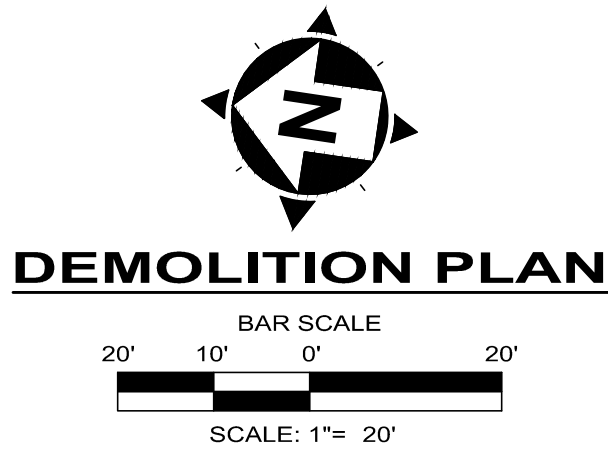
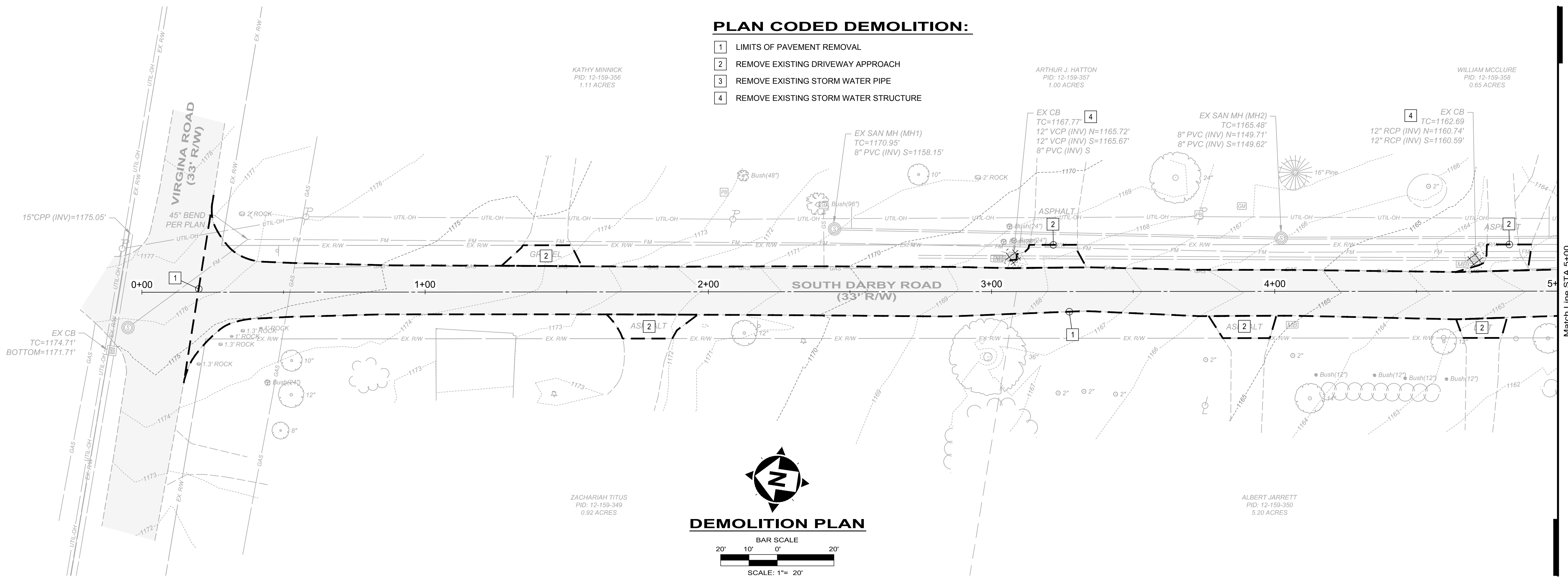
**CITY OF HERMITAGE**  
**SOUTH DARBY ROAD STORMWATER AND**  
**ROADWAY IMPROVEMENTS PROJECT**  
 HERMITAGE, PENNSYLVANIA

**EXISTING SITE PLAN**

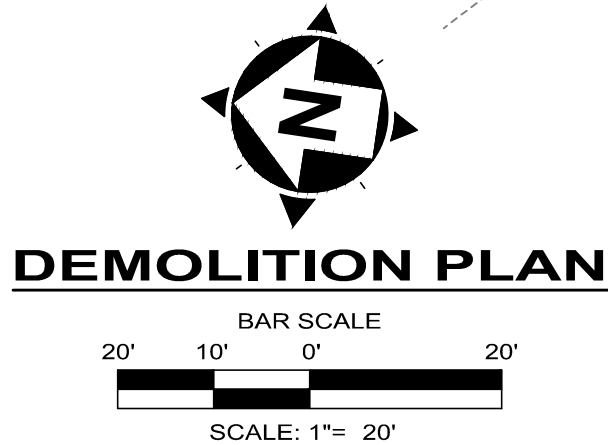
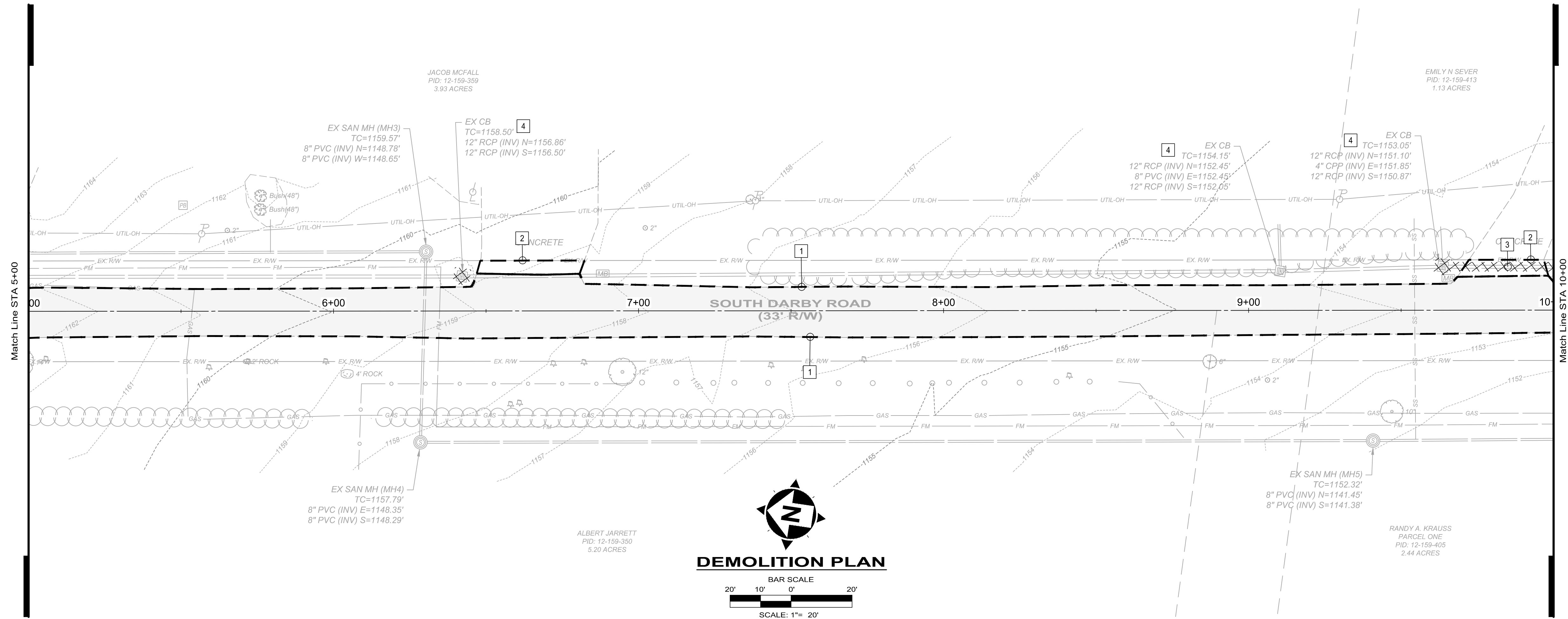
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DISCIPLINE	<b>CIVIL</b>
SHEET NAME	<b>EC-3</b>
SHEET	OF
<b>07</b>	<b>25</b>

**PLAN CODED DEMOLITION:**

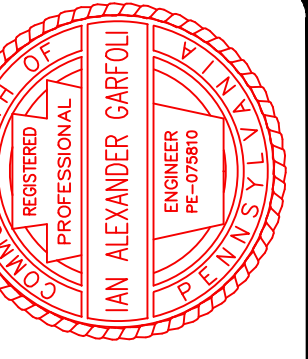
- 1 LIMITS OF PAVEMENT REMOVAL
- 2 REMOVE EXISTING DRIVEWAY APPROACH
- 3 REMOVE EXISTING STORM WATER PIPE
- 4 REMOVE EXISTING STORM WATER STRUCTURE



**DEMOLITION PLAN**



**DEMOLITION PLAN**



NO	REVISION	DATE

ISSUED FOR:	DESIGN:	DATE:	SCALE:	DESIGNED BY:	DRAWN BY:	CHECKED BY:

**CITY OF HERMITAGE**  
**SOUTH DARBY ROAD STORMWATER AND**  
**ROADWAY IMPROVEMENTS PROJECT**  
 HERMITAGE, PENNSYLVANIA

**DEMOLITION PLAN**

PROJECT NO.	<b>181039</b>
DISCIPLINE	<b>CIVIL</b>
SHEET NAME	<b>DP-1</b>
SHEET	<b>08</b>
OF	<b>25</b>

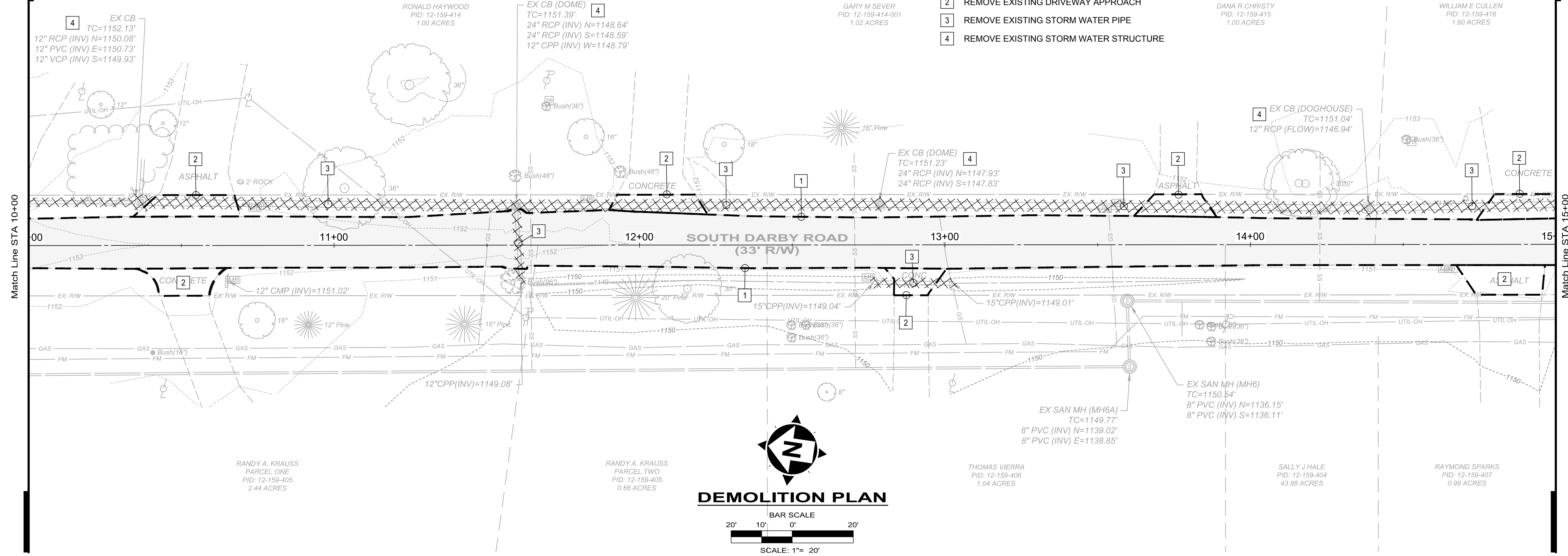


**PLAN CODED DEMOLITION:**

- 1 LIMITS OF PAVEMENT REMOVAL
- 2 REMOVE EXISTING DRIVEWAY APPROACH
- 3 REMOVE EXISTING STORM WATER PIPE
- 4 REMOVE EXISTING STORM WATER STRUCTURE

Match Line STA 10+00

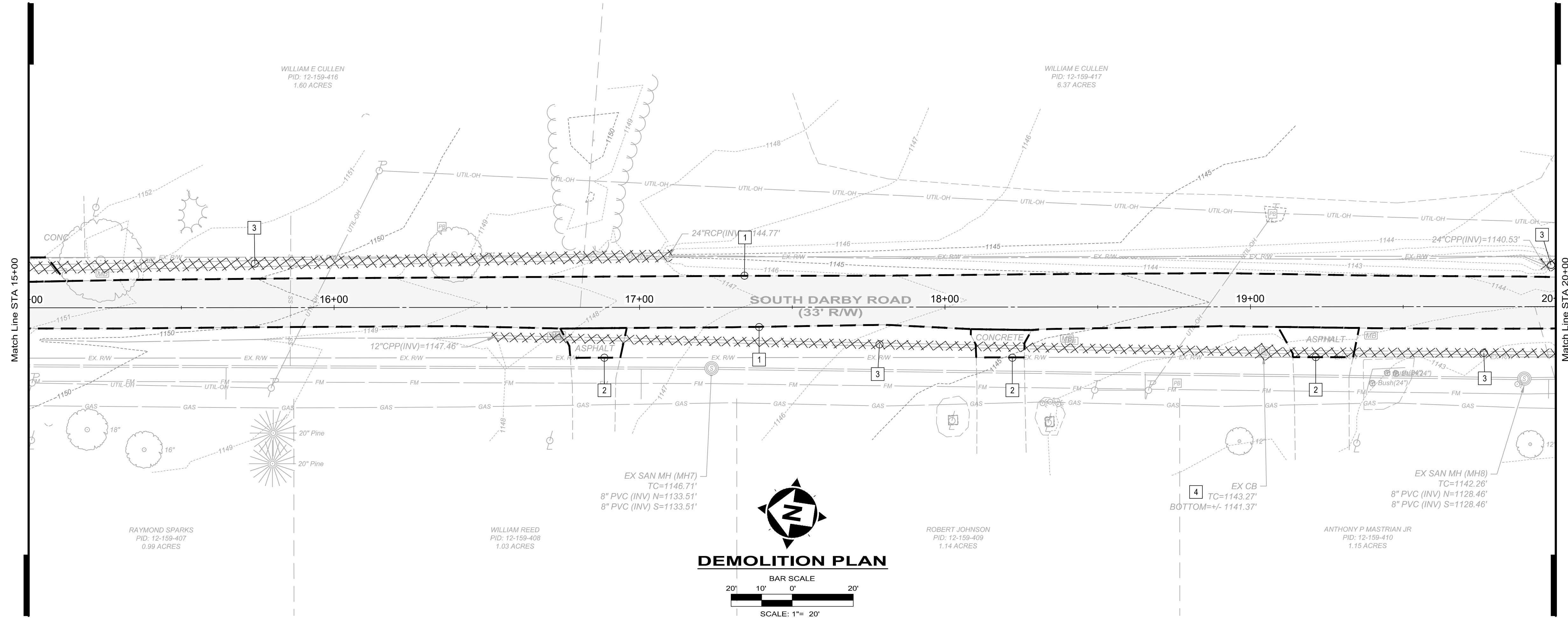
Match Line STA 15+00



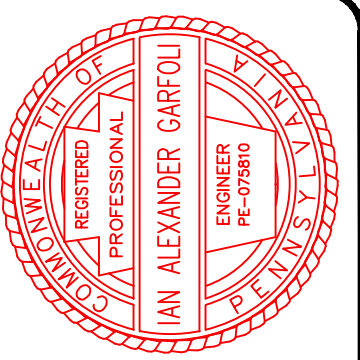
**DEMOLITION PLAN**  
 BAR SCALE  
 20' 10' 0' 20'  
 SCALE: 1"= 20'

Match Line STA 15+00

Match Line STA 20+00



**DEMOLITION PLAN**  
 BAR SCALE  
 20' 10' 0' 20'  
 SCALE: 1"= 20'



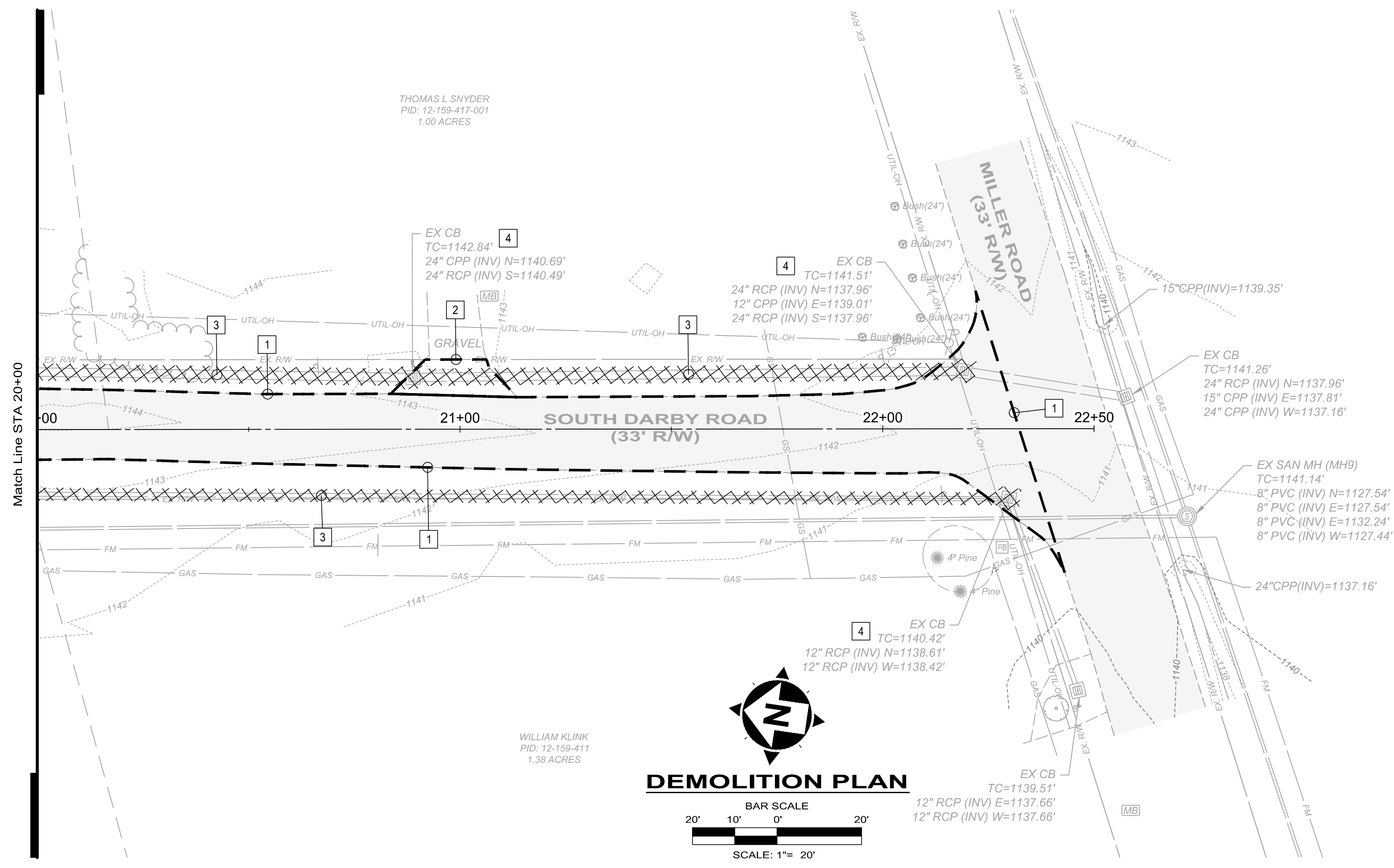
NO	REVISION	DATE

ISSUED FOR:	DESIGN

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**ROADWAY IMPROVEMENTS PROJECT**  
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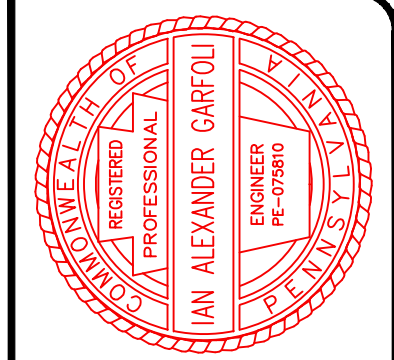
**DEMOLITION PLAN**

PROJECT NO.	181039
DISCIPLINE	CIVIL
SHEET NAME	DP-2
SHEET	09
OF	25



**PLAN CODED DEMOLITION:**

- 1 LIMITS OF PAVEMENT REMOVAL
- 2 REMOVE EXISTING DRIVEWAY APPROACH
- 3 REMOVE EXISTING STORM WATER PIPE
- 4 REMOVE EXISTING STORM WATER STRUCTURE



ISSUED FOR:	DESIGN NO.	REVISION	DATE
ISSUE DATE: 2/20/2019			
SCALE: AS SHOWN			
DESIGNED BY: PMT			
DRAWN BY: PMT			
CHECKED BY: JAG			

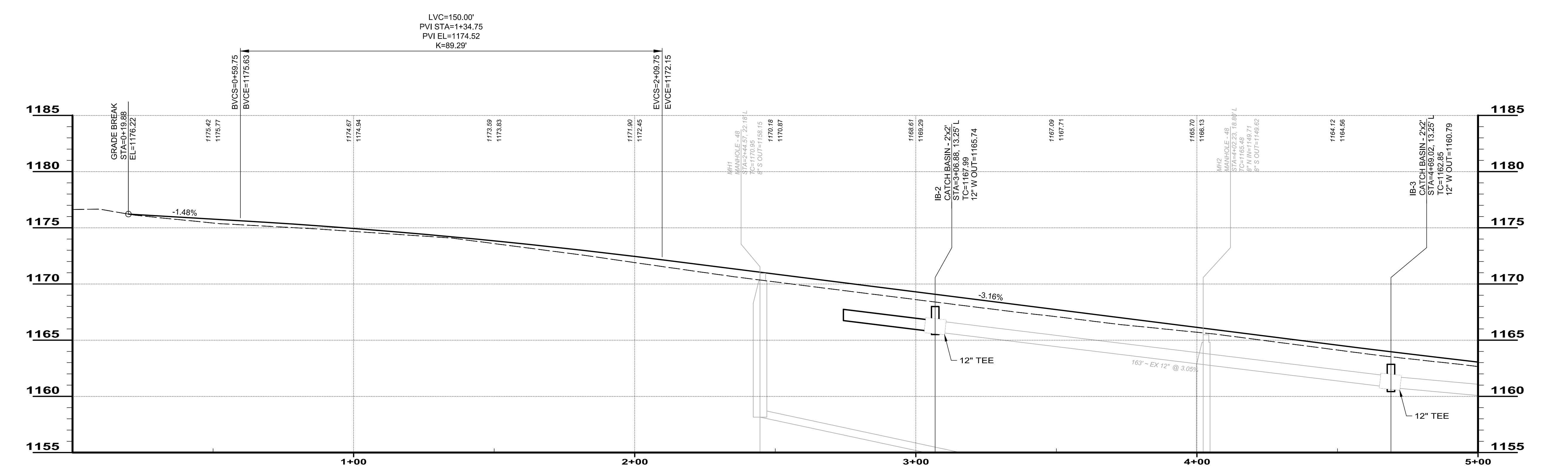
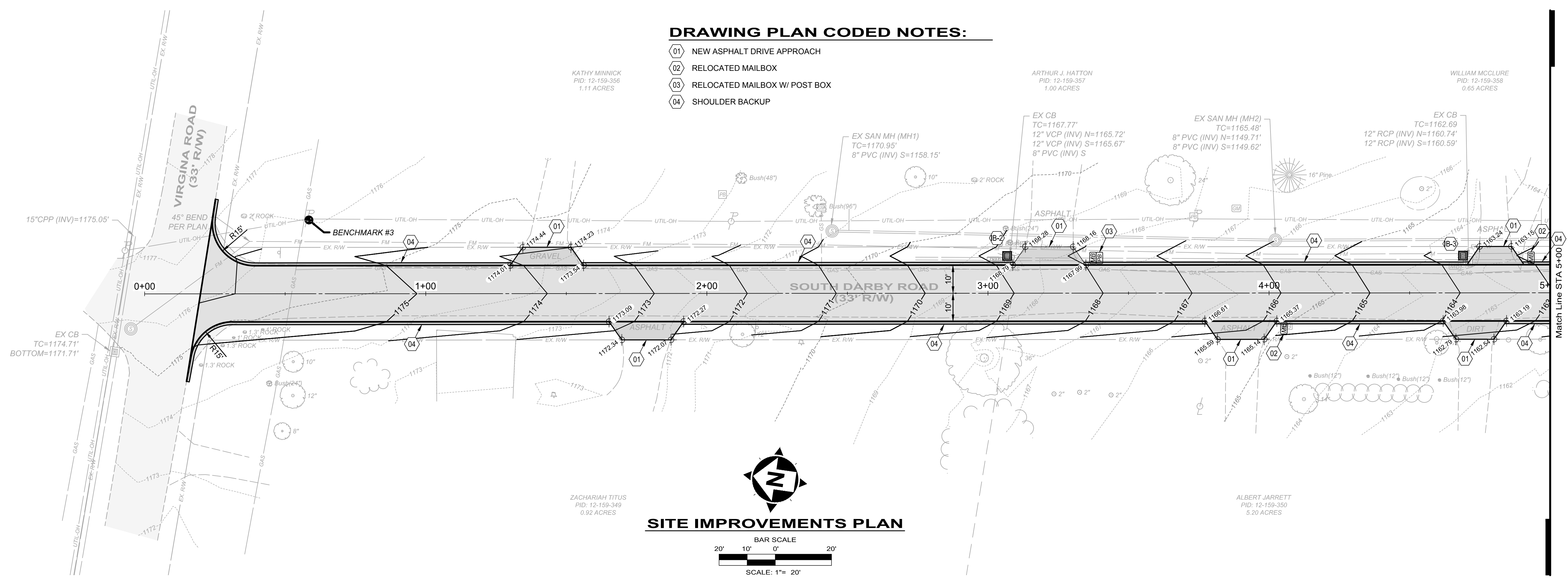
**CITY OF HERMITAGE**  
**SOUTH DARBY ROAD STORMWATER AND ROADWAY IMPROVEMENTS PROJECT**  
 HERMITAGE, PENNSYLVANIA

**DEMOLITION PLAN**

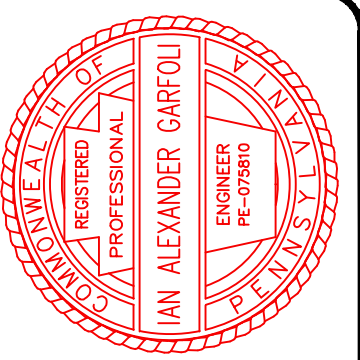
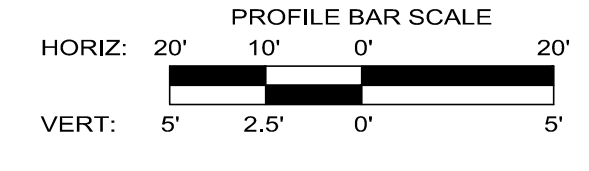
PROJECT NO.	<b>181039</b>
DISCIPLINE	<b>CIVIL</b>
SHEET NAME	<b>DP-3</b>
SHEET	OF
<b>10</b>	<b>25</b>

**DRAWING PLAN CODED NOTES:**

- 01 NEW ASPHALT DRIVE APPROACH
- 02 RELOCATED MAILBOX
- 03 RELOCATED MAILBOX W/ POST BOX
- 04 SHOULDER BACKUP



**STORM SEWER PROFILE STA: 0+00 TO 5+00**



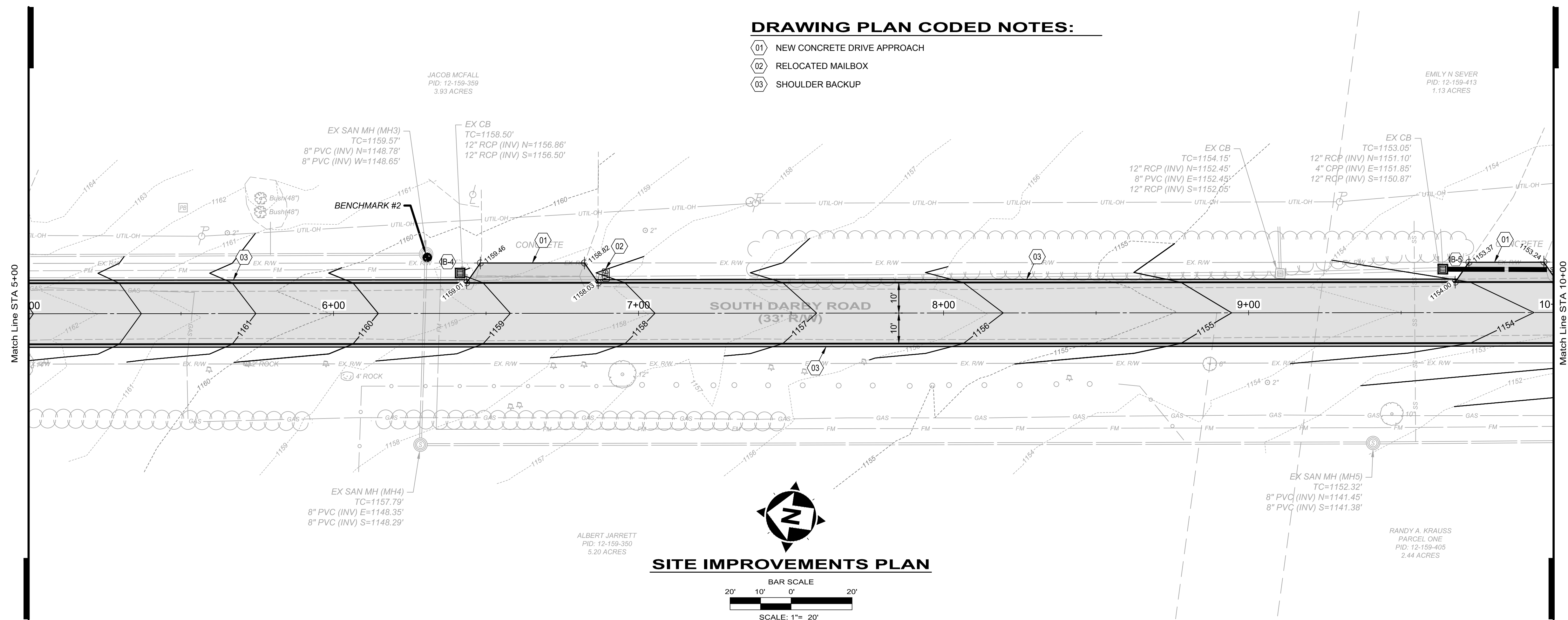
ISSUED FOR:	DESIGN NO.	DATE
AS SHOWN		
DESIGNED BY: PMT	REVISION	
DRAWN BY: PMT	NO.	
CHECKED BY: IAG		

**CITY OF HERMITAGE**  
**SOUTH DARBY ROAD STORMWATER AND ROADWAY IMPROVEMENTS PROJECT**  
 HERMITAGE, PENNSYLVANIA  
**PLAN & PROFILE 1**

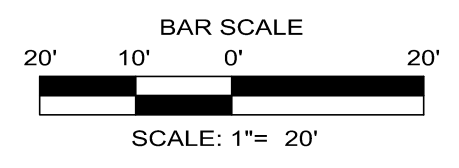
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DISCIPLINE	CIVIL
SHEET NAME	PP-1
SHEET	OF
11	25

**DRAWING PLAN CODED NOTES:**

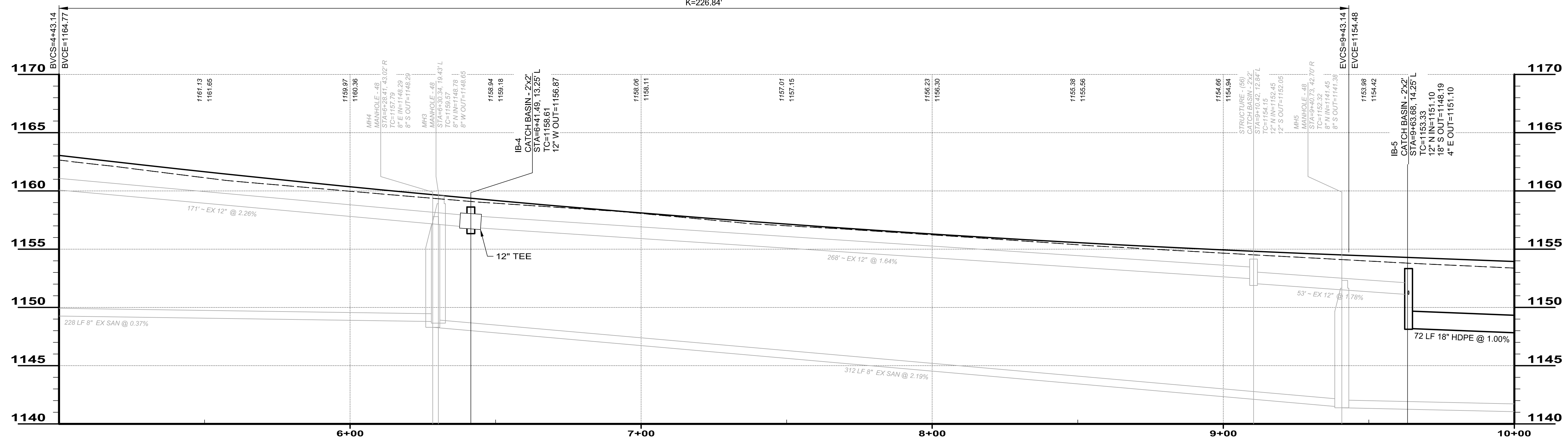
- 01 NEW CONCRETE DRIVE APPROACH
- 02 RELOCATED MAILBOX
- 03 SHOULDER BACKUP



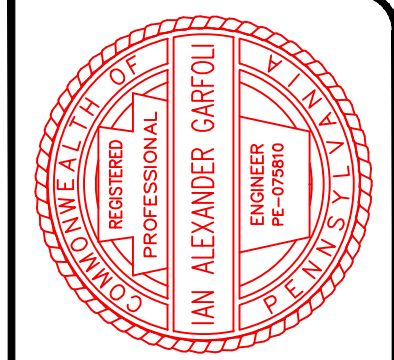
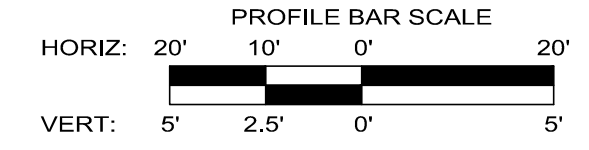
**SITE IMPROVEMENTS PLAN**



LVC=500.00'  
 PVI STA=6+93.14  
 PVI EL=1156.87  
 K=226.84'



**STORM SEWER PROFILE STA: 5+00 TO 10+00**

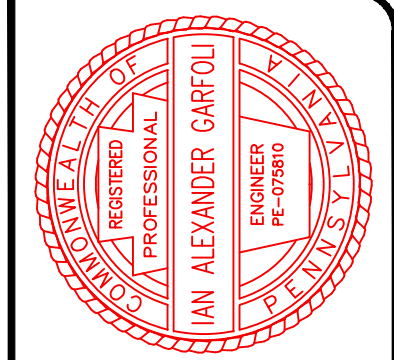


ISSUED FOR:	DESIGN:	NO.	REVISION:	DATE:
AS SHOWN				
DESIGNED BY: PMT				
DRAWN BY: PMT				
CHECKED BY: IAG				

**CITY OF HERMITAGE**  
**SOUTH DARBY ROAD STORMWATER AND ROADWAY IMPROVEMENTS PROJECT**  
 HERMITAGE, PENNSYLVANIA  
**PLAN & PROFILE 2**

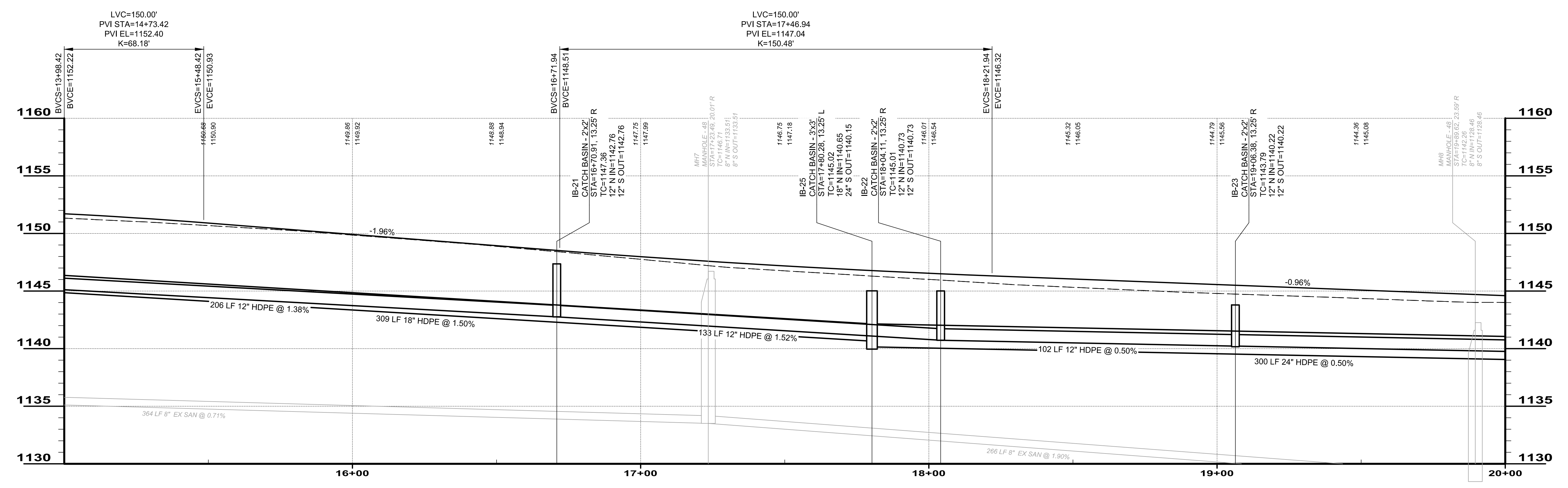
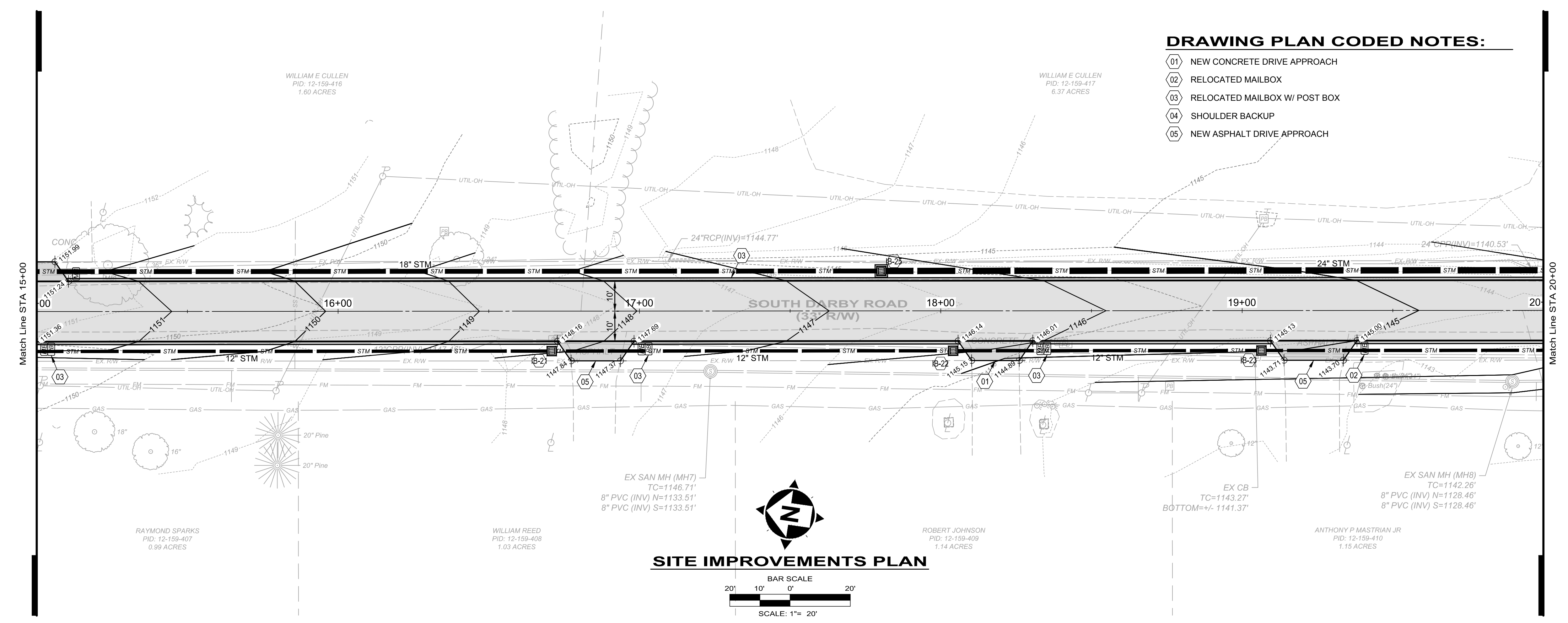
PROJECT NO.	181039
DISCIPLINE	CIVIL
SHEET NAME	PP-2
SHEET	12
OF	25





**DRAWING PLAN CODED NOTES:**

- 01 NEW CONCRETE DRIVE APPROACH
- 02 RELOCATED MAILBOX
- 03 RELOCATED MAILBOX W/ POST BOX
- 04 SHOULDER BACKUP
- 05 NEW ASPHALT DRIVE APPROACH



**STORM SEWER PROFILE STA: 15+00 TO 20+00**



NO	REVISION	DATE

ISSUED FOR:	DESIGN	DATE
AS SHOWN <td>5/7/2019 <td> </td> </td>	5/7/2019 <td> </td>	

SCALE:	DESIGNED BY:	PMT

DRAWN BY:	PMT

CHECKED BY:	IAG

**CITY OF HERMITAGE**  
**SOUTH DARBY ROAD STORMWATER AND**  
**ROADWAY IMPROVEMENTS PROJECT**  
 HERMITAGE, PENNSYLVANIA

**PLAN & PROFILE 4**

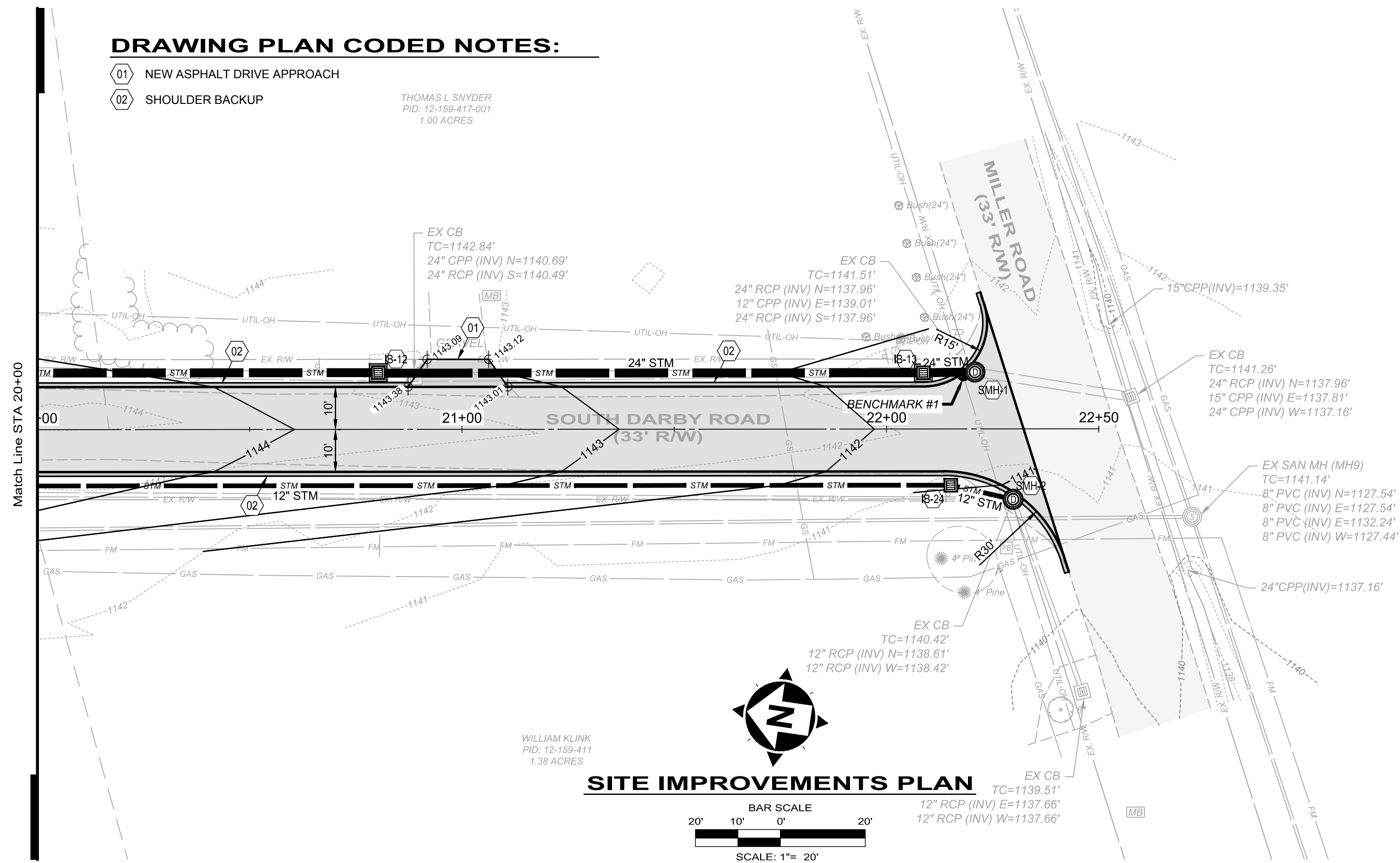
PROJECT NO.	181039
DISCIPLINE	CIVIL
SHEET NAME	PP-4
SHEET	14
OF	25

**DRAWING PLAN CODED NOTES:**

- 01 NEW ASPHALT DRIVE APPROACH
- 02 SHOULDER BACKUP

THOMAS L SNYDER  
PID: 12-159-417-001  
1.00 ACRES

Match Line STA 20+00

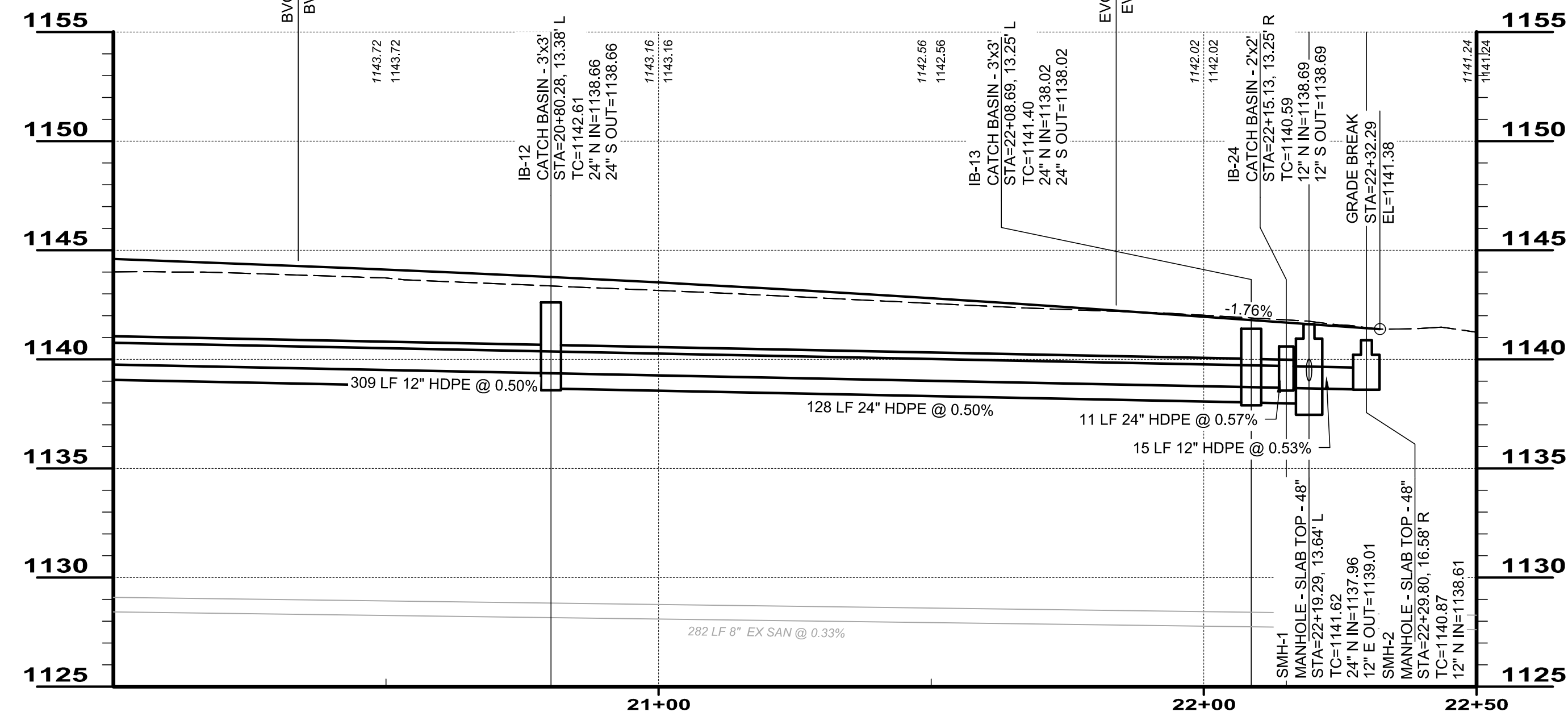


WILLIAM KLINK  
PID: 12-159-411  
1.38 ACRES

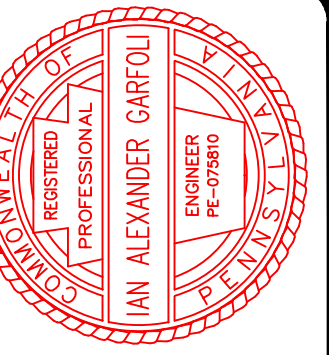
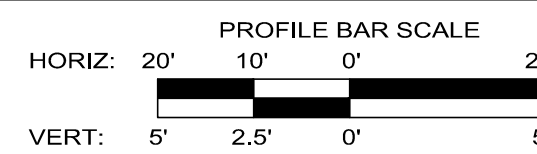
**SITE IMPROVEMENTS PLAN**



LVC=150.00'  
PVI STA=21+08.92  
PVI EL=1143.55  
K=188.33



**STORM SEWER PROFILE STA: 20+00 TO 22+50**



ISSUED FOR:	DESIGN NO.	REVISION	DATE
AS SHOWN	181039		5/7/2019
DESIGNED BY: PMT			
DRAWN BY: PMT			
CHECKED BY: IAG			

**CITY OF HERMITAGE**  
**SOUTH DARBY ROAD STORMWATER AND**  
**ROADWAY IMPROVEMENTS PROJECT**  
HERMITAGE, PENNSYLVANIA

**PLAN & PROFILE 5**

PROJECT NO.	181039
DISCIPLINE	CIVIL
SHEET NAME	PP-5
SHEET	15
OF	25

## SOIL EROSION AND SEDIMENTATION CONTROL NOTES AND MAINTENANCE PROGRAM:

- ONLY LIMITED UP-SLOPE DISTURBANCE WILL BE PERMITTED TO PROVIDE ACCESS TO ANY SEDIMENT BASINS, SEDIMENT TRAPS, DIVERSION CHANNELS, AND OTHER CONTROL MEASURES FOR GRADING AND ACQUIRING BORROW TO CONSTRUCT THOSE CONTROLS AS REQUIRED.
- EROSION AND SEDIMENTATION CONTROLS MUST BE CONSTRUCTED, STABILIZED, AND FUNCTIONAL BEFORE GENERAL SITE DISTURBANCE WITHIN THE TRIBUTARY AREAS OF THOSE CONTROLS.
- AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY EROSION AND SEDIMENTATION CONTROL MUST BE REMOVED. AREAS DISTURBED DURING REMOVAL OF THE CONTROLS MUST BE STABILIZED.
- VEHICLES MAY ONLY ENTER AND EXIT AT THE LOCATION OF APPROVED CONSTRUCTION ENTRANCES.
- STOCK PILE HEIGHTS MUST NOT EXCEED 35 FEET NOR SHALL THE SIDE SLOPES EXCEED 2:1. STOCK PILES SHALL BE LOCATED ON SITE BY THE CONTRACTOR AT LOCATIONS APPROVED BY THE COUNTY CONSERVATION DISTRICT.
- UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENTATION CONTROLS MUST BE MAINTAINED PROPERLY. MAINTENANCE MUST INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENTATION CONTROLS AFTER EACH STORM EVENT AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEANOUT, REPAIR, REPLACEMENT, RE-GRADING, RE-SEEDING, RE-MULCHING, AND RE-NETTING MUST BE PERFORMED IMMEDIATELY.
- SEDIMENT MUST BE REMOVED FROM SEDIMENT CONTROL FACILITIES WHEN STORAGE CAPACITIES ARE REDUCED. DISPOSAL OF SEDIMENT SHALL BE IN ACCORDANCE WITH LOCAL & STATE RULES & REGULATIONS.
- ANY SEDIMENT BASINS AND SEDIMENT TRAPS MUST BE PROTECTED FROM UNAUTHORIZED ACTS OF THIRD PARTIES.
- CLEANOUT STAKES MUST BE PROVIDED AT HALF DISTANCES FROM THE POINT OF CONCENTRATED INFLOWS INTO THE BASINS AND TRAPS TO THE OUTLET STRUCTURE. SEDIMENT SHALL BE REMOVED WHEN ACCUMULATIONS ON ONE-HALF OF THE STAKES (IF MORE THAN ONE) REACH THE CLEANOUT ELEVATION.
- SILT FENCING MUST BE INSTALLED PARALLEL TO EXISTING CONTOURS OR CONSTRUCTED LEVEL ALIGNMENTS. ENDS OF FENCING MUST EXTEND 4', TRAVELING UP-SLOPE AT 45° TO THE ALIGNMENT OF THE MAIN FENCING SECTION.
- SEDIMENT MUST BE REMOVED WHERE ACCUMULATIONS REACH ONE-HALF THE ABOVE GROUND HEIGHT OF THE SILT FENCING.
- ANY SILT FENCING THAT HAS BEEN UNDERMINED OR TOPPLED MUST BE REPLACED WITH ROCK FILTER OUTLETS IMMEDIATELY.
- ALL STORMWATER INLETS MUST BE PROTECTED UNTIL THE TRIBUTARY AREAS ARE STABILIZED. INLETS WHICH DO NOT DISCHARGE TO A SEDIMENT TRAP OR SEDIMENT BASIN MUST BE PROTECTED UNTIL THE TRIBUTARY AREAS ARE STABILIZED.
- ALL EROSION AND SEDIMENTATION CONTROL MEASURES MUST BE INSPECTED WEEKLY AND AFTER EVERY RUNOFF EVENT.
- ANY DIVERSION CHANNELS, SEDIMENT BASINS, SEDIMENT TRAPS, DIVERSION BERMS, AND STOCKPILES MUST BE SEEDED AND MULCHED IMMEDIATELY.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR THE PROPER CONSTRUCTION, STABILIZATION, AND MAINTENANCE OF ALL EROSION AND SEDIMENTATION CONTROLS AND RELATED ITEMS INCLUDED ON THIS PLAN.
- THE CONTRACTOR MUST DEVELOP, AND HAVE APPROVED BY THE COUNTY CONSERVATION DISTRICT, A SEPARATE EROSION AND SEDIMENTATION CONTROL PLAN FOR EACH SPOIL, BORROW, OR OTHER WORK AREA NOT DETAILED HEREIN, WHETHER LOCATED WITHIN OR OUTSIDE OF THE CONSTRUCTION LIMITS.
- SHOULD ANY MEASURES CONTAINED WITHIN THIS PLAN PROVE INCAPABLE OF ADEQUATELY REMOVING SEDIMENT FROM ON-SITE FLOWS PRIOR TO DISCHARGE OR STABILIZING THE SURFACES INVOLVED, ADDITIONAL MEASURES MUST BE IMMEDIATELY IMPLEMENTED BY THE APPLICANT TO ELIMINATE ALL SUCH PROBLEMS.
- SHOULD UNFORESEEN EROSION CONDITIONS DEVELOP DURING CONSTRUCTION, THE CONTRACTOR SHALL TAKE ACTION TO REMEDY SUCH CONDITIONS AND TO PREVENT DAMAGE TO ADJACENT PROPERTIES AS A RESULT OF INCREASED RUNOFF AND/OR SEDIMENT DISPLACEMENT. STOCKPILES OF WOOD CHIPS, HAY BALES, CRUSHED STONE AND OTHER MULCHES SHALL BE HELD IN READINESS TO DEAL IMMEDIATELY WITH EMERGENCY PROBLEMS OF EROSION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF EXISTING TREES AND SHRUBS TO REMAIN FROM UNNECESSARY DAMAGE.
- A COPY OF THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN (E&SPC) MUST BE POSTED AT THE CONSTRUCTION SITE AT ALL TIMES IN ACCORDANCE WITH THE LAWS OF THE COMMONWEALTH OF PENNSYLVANIA.
- THE CONTRACTOR IS ADVISED TO BECOME THOROUGHLY FAMILIAR WITH THE PROVISIONS TITLE 25, PART 1, DEPARTMENT OF ENVIRONMENTAL PROTECTION, SUB-PART C, PROTECTION OF NATURAL RESOURCES, ARTICLE III, WATER RESOURCES, CHAPTER 102, EROSION CONTROL.
- THE EROSION AND SEDIMENT CONTROL MEASURES ARE FOR THE INSTALLATION, MAINTENANCE AND MEASURES TO CONTROL EROSION AND SEDIMENTATION ONLY. REFER TO APPROPRIATE PLAN SHEETS FOR ALL UTILITY, STORMWATER, SITE IMPROVEMENT, AND OTHER CONSTRUCTION INFORMATION.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR THE REMOVAL OF ANY EXCESS MATERIAL AND MAKE SURE SITE(S) RECEIVING THE EXCESS HAS AN APPROVED EROSION CONTROL PLAN THAT MEETS THE CONDITIONS OF CHAPTER 102 AND/OR OTHER STATE, FEDERAL REGULATIONS.
- ALL BUILDING MATERIALS AND WASTES MUST BE REMOVED FROM THE SITE AND RECYCLED OR DISPOSED IN ACCORDANCE WITH THE DEPARTMENT'S REGULATIONS § 25 PA. CODE 280.1 ET. SEQ., § 287.1 ET. SEQ. § 271.1 ET. SEQ.. NO BUILDING MATERIAL AND OR WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURIED, DUMPED, OR DISCHARGED AT THE SITE.
- THE CONTRACTOR MUST ENSURE THAT VISUAL SITE INSPECTIONS ARE CONDUCTED WEEKLY AND AFTER EACH PRECIPITATION EVENT BY A QUALIFIED PERSON TRAINED AND EXPERIENCED IN EROSION AND SEDIMENT CONTROL, TO ASCERTAIN THAT THE BMPs ARE OPERATIONAL AND EFFECTIVE IN PREVENTING POLLUTION TO THE WATERS OF THE COMMONWEALTH. A WRITTEN REPORT OF EACH INSPECTION SHALL BE KEPT AND INCLUDE:
  - SUMMARY OF SITE CONDITION, BMPs (BEST MANAGEMENT PRACTICES) AND COMPLIANCE
  - THE DATE, TIME AND THE NAME OF THE PERSON CONDUCTING THE INSPECTION.
- IF BMPs ARE FOUND TO BE INOPERATIVE OR INEFFECTIVE DURING AN INSPECTION, OR ANY OTHER TIME, THE PERMITTEE AND/OR CO-PERMITTEE SHALL IMMEDIATELY CONTACT THE DISTRICT. DOCUMENTATION SHOULD INCLUDE WHAT STEPS ARE BEING TAKEN TO REDUCE, ELIMINATE AND PREVENT RECURRENCE OF THE PROBLEM. THE CONTRACTOR SHALL TAKE ALL REASONABLE STEPS TO MINIMIZE OR PREVENT ANY DISCHARGE IN VIOLATION OF THIS PERMIT WHICH HAS A REASONABLE LIKELIHOOD OF ADVERSELY AFFECTING HUMAN HEALTH OR ENVIRONMENT.

## INSPECTION AND MAINTENANCE:

- ALL EROSION AND SEDIMENTATION CONTROL FACILITIES SHALL BE INSPECTED WEEKLY AND AFTER EACH MEASURABLE RAIN EVENT.
- FABRIC FENCES: REPAIR DAMAGE TO FENCES. BACKFILL UNDERCUTTING. OVERTOPPED AREAS SHALL BE REPLACED WITH AN OUTLET ROCK FILTER. IF SEDIMENT REACHES ONE HALF THE FENCE HEIGHT, IT SHALL BE REMOVED AND PLACED IN THE TOPSOIL AND FILL STOCKPILE AREA. REPLACEMENT FENCE AND STAKES SHALL BE KEPT ON SITE.
- CONSTRUCTION ENTRANCE: WHEN UTILIZED, INSPECTED DAILY. EXCESS SEDIMENT SHALL BE REMOVED AND STORED IN THE TOPSOIL AND FILL STOCKPILE AREA AND USED AS FILL OR ROAD SUBBASE. A STOCKPILE OF REPLACEMENT ROCK SHALL BE KEPT ON SITE.
- CATCH BASIN: REPLACE SILT SACKS WHEN FULL. THE SEDIMENT SHALL BE PLACED IN THE TOPSOIL AND FILL STOCKPILE AREA. EXTRA SILT SACKS MUST BE KEPT ON SITE. FILTER FABRIC PROTECTION TREAT AS FABRIC FENCE.
- ROCK FILTERS: WHEN UTILIZED, REPLACE WHEN CLOGGED WITH SEDIMENT. KEEP A STOCKPILE OF REPLACEMENT ROCK ON SITE. CLOGGED FILTER ROCK MAY BE STORED IN THE TOPSOIL AND FILL STOCKPILE AREA AND USED AS FILL OR ROAD SUBBASE.
- SEDIMENT TRAPS: WHEN UTILIZED, REMOVE SEDIMENT WHEN IT REACHES THE REMOVAL MARK ON THE INDICATOR STAKE AND PLACE IT IN THE TOPSOIL AND FILL STOCKPILE AREA CHECK EMBANKMENT FOR PIPING, EROSION OR OVERTOPPING AND REPAIR AS NEEDED. INSPECT OUTLET STRUCTURE, CLEAN OF ANY DEBRIS, AND REPAIR AS NEEDED.

## SITE RESTORATION:

- ALL DISTURBED PROPERTY SHALL BE RESTORED TO ITS PRE-CONSTRUCTION CONDITION, AS NEAR AS POSSIBLE WITHIN 20 DAYS OF DISTURBANCE.
- ONCE AN AREA IS GRADED TO ITS FINAL GRADE, IT MUST BE STABILIZED WITH THE PERMANENT SEED MIX SPECIFICATION ACCORDING TO ITS SLOPE.

## ESC GENERAL NOTES:

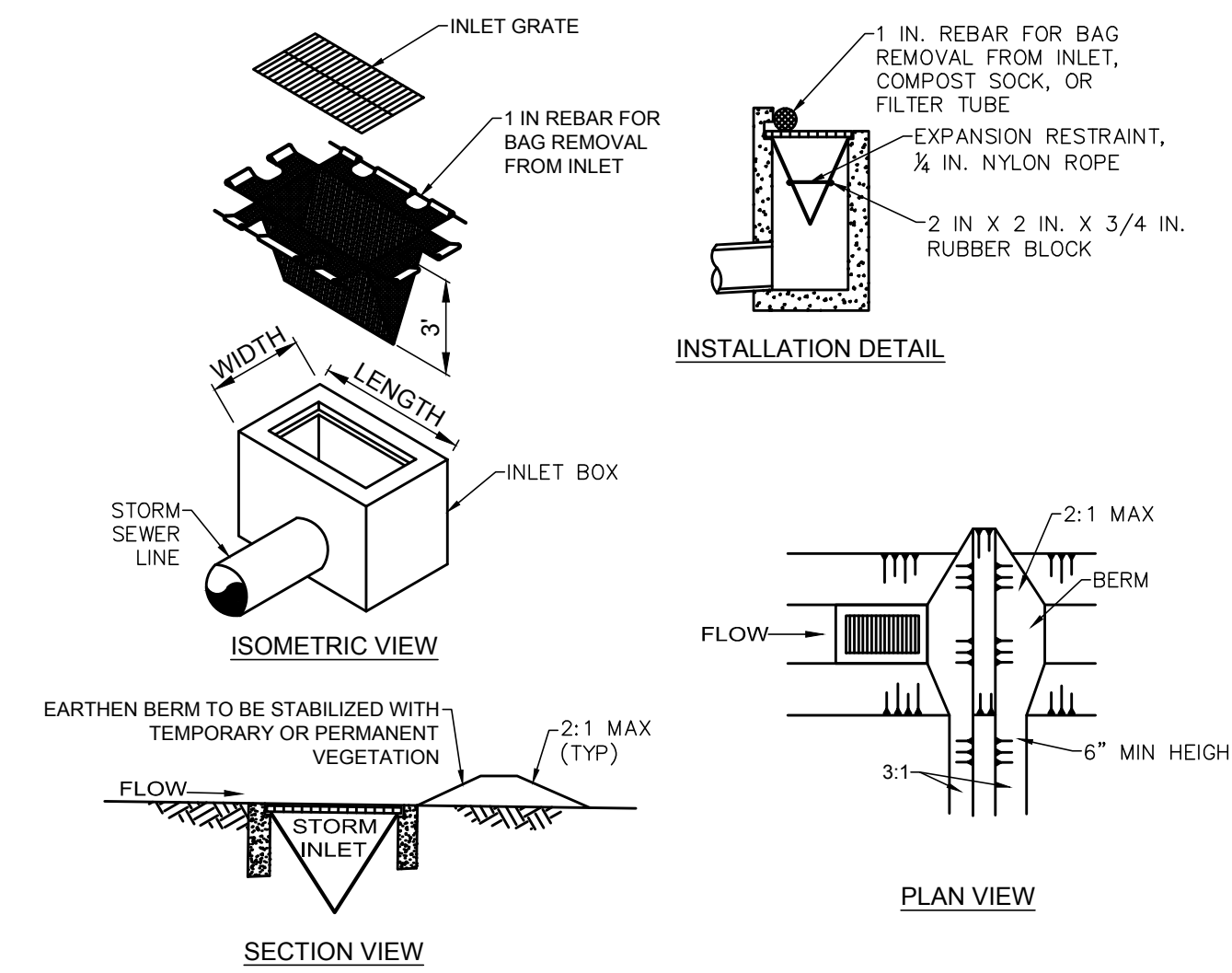
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION, MAINTENANCE AND SUBSEQUENT REMOVAL OF SEDIMENTATION AND EROSION CONTROL MEASURES AS SHOWN ON THE PLANS AS OUTLINED HEREIN, AND IN ACCORDANCE WITH THE REQUIREMENTS OF THE COUNTY SOIL CONSERVATION DISTRICT AND THE PENNSYLVANIA DEPT. OF ENVIRONMENTAL PROTECTION.
- ALL EROSION CONTROL MEASURES SHOWN ON THE EROSION AND SEDIMENTATION CONTROL PLAN ARE TO BE INSTALLED PRIOR TO BEGINNING ANY OTHER EARTH DISTURBING ACTIVITY.
- EROSION AND SEDIMENT BMPs (BEST MANAGEMENT PRACTICES) MUST BE CONSTRUCTED, STABILIZED, AND FUNCTIONAL BEFORE SITE DISTURBANCE BEGINS WITHIN THE TRIBUTARY AREAS OF THOSE BMPs.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING INSPECTIONS OF ALL EROSION CONTROL DEVICES ON A WEEKLY BASIS AND AFTER ALL STORMS THAT PRODUCE MORE THAN ONE-HALF (1/2") INCH TOTAL RAINFALL. ANY NEEDED REPAIRS SHALL BE PERFORMED IMMEDIATELY. THE CONTRACTOR SHALL DOCUMENT ALL INSPECTIONS AND ANY REPAIRS THAT ARE DONE TO MAINTAIN EFFICIENCY. COPIES OF EROSION CONTROL INSPECTION REPORTS SHALL BE SUBMITTED TO THE COUNTY SOIL CONSERVATION DISTRICT.
- AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY EROSION AND SEDIMENT BMPs MUST BE REMOVED. AREAS DISTURBED DURING REMOVAL OF THE BMPs MUST BE STABILIZED IMMEDIATELY.
- STOCKPILE HEIGHTS MUST NOT EXCEED 35 FEET. STOCKPILE SLOPES MUST BE 2:1 OR FLATTER.
- A SILT FENCE SHALL BE INSTALLED AROUND THE PERIMETER OF ALL SOIL STOCKPILED.
- UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENT BMPs MUST BE MAINTAINED PROPERLY. MAINTENANCE MUST INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENT BMPs AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADING, RESEEDING, REMULCHING AND RENETTING MUST BE PERFORMED IMMEDIATELY. IF EROSION AND SEDIMENT CONTROL BMPs FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMPs, OR MODIFICATIONS OF THOSE INSTALLED WILL BE REQUIRED.

## OPERATOR'S RESPONSIBILITIES:

- OPERATORS MUST USE ENVIRONMENTAL DUE DILIGENCE TO ENSURE THAT THE FILL MATERIAL ASSOCIATED WITH THIS PROJECT QUALIFIES AS CLEAN FILL. DEFINITIONS OF CLEAN FILL AND ENVIRONMENTAL DUE DILIGENCE ARE PROVIDED BELOW.
  - CLEAN FILL IS DEFINED AS: UNCONTAMINATED, NON-WATER SOLUBLE, NON-DECOMPOSABLE, INERT, SOLID MATERIAL. THE TERM INCLUDES SOIL, ROCK, STONE, DREDGED MATERIAL, USED ASPHALT, AND BRICK, BLOCK OR CONCRETE FROM CONSTRUCTION AND DEMOLITION ACTIVITIES THAT IS SEPARATE FROM OTHER WASTE AND IS RECOGNIZABLE AS SUCH. THE TERM DOES NOT INCLUDE MATERIALS PLACED IN OR ON THE WATERS OF THE COMMONWEALTH UNLESS OTHERWISE AUTHORIZED. (THE TERM "USED ASPHALT" DOES NOT INCLUDE MILLED ASPHALT THAT HAS BEEN PROCESSED FOR RE-USE.) REFER TO STANDARD DETAILS AND PROJECT MANUAL FOR SPECIFIC PROJECT REQUIREMENTS.
  - ENVIRONMENTAL DUE DILIGENCE: INVESTIGATIVE TECHNIQUES, INCLUDING, BUT NOT LIMITED TO, VISUAL PROPERTY INSPECTIONS, ELECTRONIC DATA BASE SEARCHES, REVIEW OF PROPERTY OWNERSHIP, REVIEW OF PROPERTY USE HISTORY, SANBORN MAPS, ENVIRONMENTAL QUESTIONNAIRES, TRANSACTION SCREENS, ANALYTICAL TESTING, ENVIRONMENTAL ASSESSMENTS OR AUDITS. ANALYTICAL TESTING IS NOT A REQUIRED PART OF DUE DILIGENCE UNLESS VISUAL INSPECTION AND/OR REVIEW OF THE PAST LAND USE OF THE PROPERTY INDICATES THAT THE FILL MAY HAVE BEEN SUBJECTED TO A SPILL OR RELEASE OF REGULATED SUBSTANCE. IF THE FILL MAY HAVE BEEN AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE, IT MUST BE TESTED TO DETERMINE IF IT QUALIFIES AS CLEAN FILL. TESTING SHOULD BE PERFORMED IN ACCORDANCE WITH APPENDIX A OF THE DEPARTMENT'S POLICY "MANAGEMENT OF FILL".
- FILL MATERIAL THAT DOES NOT QUALIFY AS CLEAN FILL IS REGULATED FILL. REGULATED FILL IS WASTE AND MUST BE MANAGED IN ACCORDANCE WITH THE DEPARTMENT'S MUNICIPAL OR RESIDUAL WASTE REGULATIONS BASED ON 25 PA CODE CHAPTERS 287 RESIDUAL WASTE MANAGEMENT OR 271 MUNICIPAL WASTE MANAGEMENT, WHICHEVER IS APPLICABLE.

## PENNDOT PUBLICATION 72M REFERENCES:

- RC-70M - PERIMETER CONTROL DEVICES
- RC-72M - INLET AND OUTLET PROTECTION
- RC-75M - DEWATERING DEVICES
- RC-76M - STRAW BALE BARRIER
- RC-77M - ROCK CONSTRUCTION ENTRANCE



### NOTES:

MAXIMUM DRAINAGE AREA = 1/2 ACRE.

INLET PROTECTION SHALL NOT BE REQUIRED FOR INLET TRIBUTARY TO SEDIMENT BASIN OR TRAP. BERMS SHALL BE REQUIRED FOR ALL INSTALLATIONS.

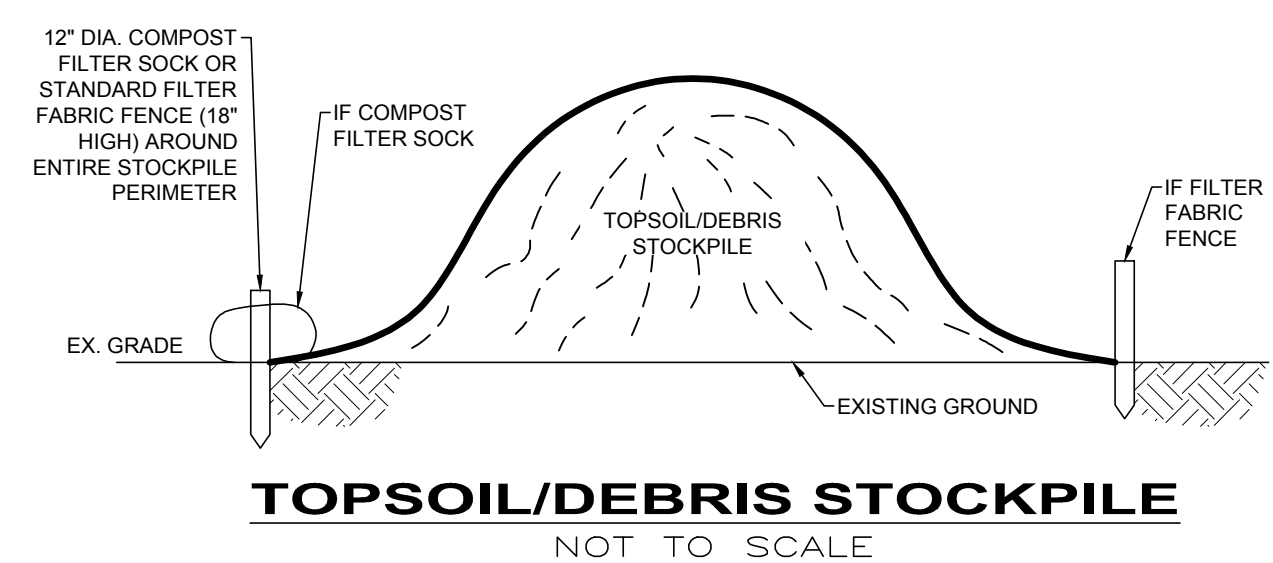
ROLLED EARTHEN BERM SHALL BE MAINTAINED UNTIL ROADWAY IS STONED. ROAD SUBBASE BERM SHALL BE MAINTAINED UNTIL ROADWAY IS PAVED. SIX INCH MINIMUM HEIGHT ASPHALT BERM SHALL BE MAINTAINED UNTIL ROADWAY SURFACE RECEIVES FINAL COAT. AT A MINIMUM, THE BERM SHALL HAVE A MINIMUM GRAB TENSILE STRENGTH OF 120 LBS, A MINIMUM BURST STRENGTH OF 200 PSI, AND A MINIMUM TRAPEZOIDAL TEAR STRENGTH OF 50 LBS. FILTER BAGS SHALL BE CAPABLE OF TRAPPING ALL PARTICLES NOT PASSING A NO. 40 SIEVE.

INLET FILTER BAGS SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER EACH RUNOFF EVENT. BAGS SHALL BE EMPTIED AND RINSED OR REPLACED WHEN HALF FULL OR WHEN FLOW CAPACITY HAS BEEN REDUCED SO AS TO CAUSE FLOODING OR BYPASSING OF THE INLET. DAMAGED OR CLOGGED BAGS SHALL BE REPLACED. A SUPPLY SHALL BE MAINTAINED ON SITE FOR REPLACEMENT OF BAGS. ALL NEEDED REPAIRS SHALL BE INITIATED IMMEDIATELY AFTER THE INSPECTION. DISPOSE OF ACCUMULATED SEDIMENT AS WELL AS ALL USED BAGS ACCORDING TO THE PLAN NOTES.

DO NOT USE ON MAJOR PAVED ROADWAYS WHERE PONDING MAY CAUSE TRAFFIC HAZARDS.

FOR TYPE C INLET, REFER TO PENNDOT RC-72M.

## FILTER BAG INLET PROTECTION TYPE M OR ODOT TYPE 2-2B INLET NOT TO SCALE

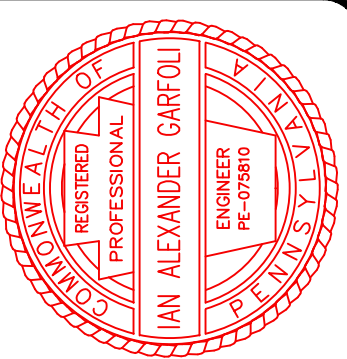
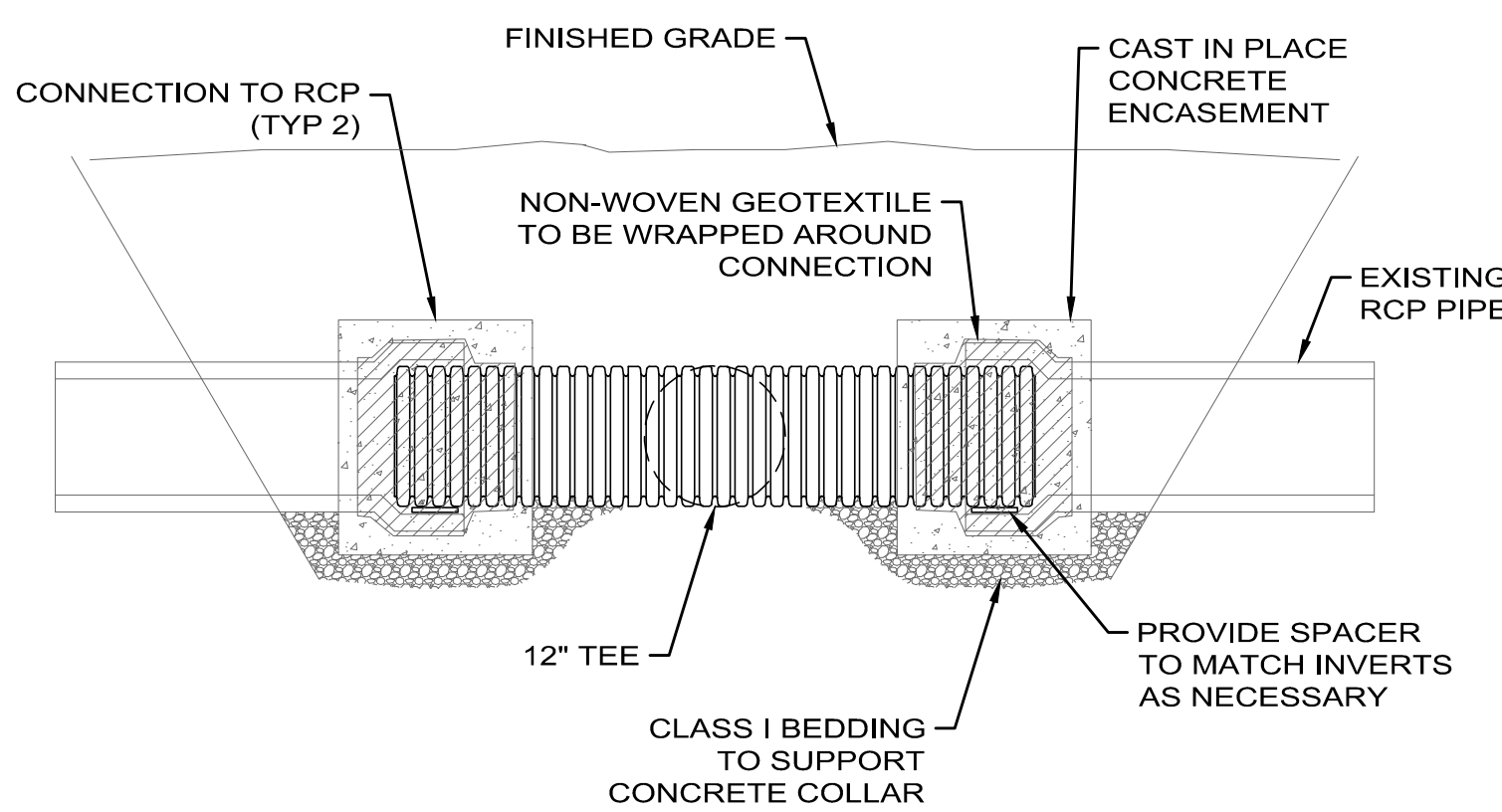


## PERMANENT SEED MIX:

SEED	TYPE	GERMINATION RATE / APPLICATION RATE
SUN SEED MIXTURE		(7/GERMINATION RATE) LBS PER 1,000 S.F.
25%	PANTHER GLS P. RYEGRASS	85%
25%	PALMER III P. RYEGRASS	90%
15%	ARC KENTUCKY BLUEGRASS	88%
15%	GUINNESS KENTUCKY BLUEGRASS	88%
10%	DIVA KENTUCKY BLUEGRASS	X
10%	DOUBLE TIME P. RYEGRASS	X
SHADE SEED MIXTURE		(7/GERMINATION RATE) LBS PER 1,000 S.F.
50%	SPARTAN II HARD FESCUE	85%
30%	WINDWARD CHEWING FESCUE	90%
20%	SEVILLE 3 PERENNIAL RYEGRASS	88%
OR		
33%	NIGHTSKY P. RYEGRASS	88%
33%	SEVILLE 3 P. RYEGRASS	X
33%	EXPRESS II P. RYEGRASS	X
FERTILIZER:	0-20-20, APPLICATION RATE: 15 LBS/1,000 SF	
FERTILIZER:	10-20-20, APPLICATION RATE: 15 LBS/1,000 SF	
LIMING RATE:	150 LBS/1,000 SF	
MULCH:	STRAW	
MULCHING RATE:	140 LBS/1,000 SF	
SLOPES EXCEEDING 3:1,	MULCH W/ EROSION CONTROL FABRIC	
SEEDING SEASONS:	MARCH 15 - JUNE 1 & AUG. 1 - OCT. 15	

## TEMPORARY SEED MIX:

SPECIES:	ANNUAL RYE	LIMING RATE:	2.0 TON/ACRE
% PURE LIVE SEED:	98	MULCH:	STRAW
APPLICATION RATE:	50 LBS/ACRE	MULCHING RATE:	3.0 TON/ACRE
FERTILIZER:	10-20-20		
FERTILIZER APPLICATION RATE:	680 LBS/ACRE		



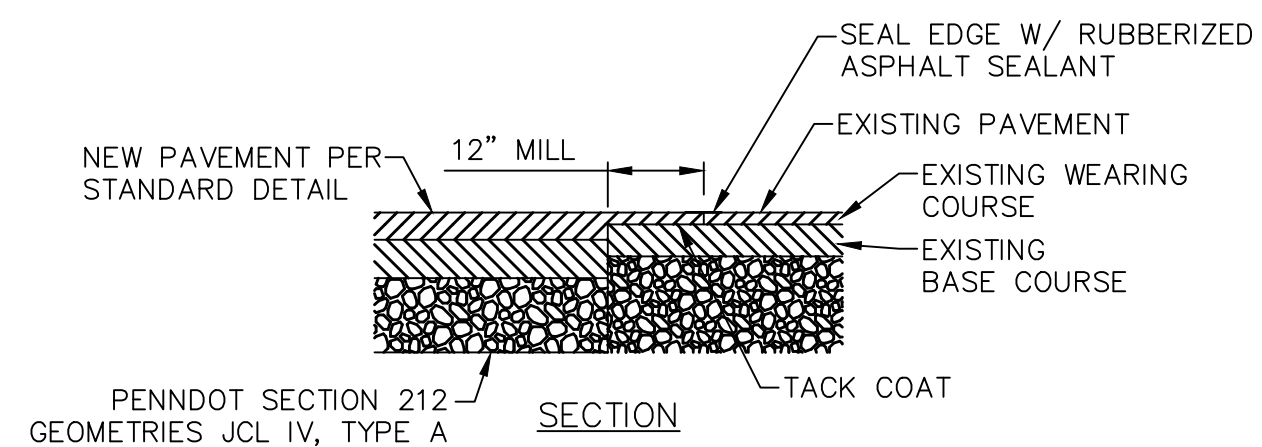
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			4/10/2019	AS SHOWN	PMT	PMT		IAG

CITY OF HERMITAGE  
SOUTH DARBY ROAD STORMWATER AND  
ROADWAY IMPROVEMENTS PROJECT  
HERMITAGE, PENNSYLVANIA

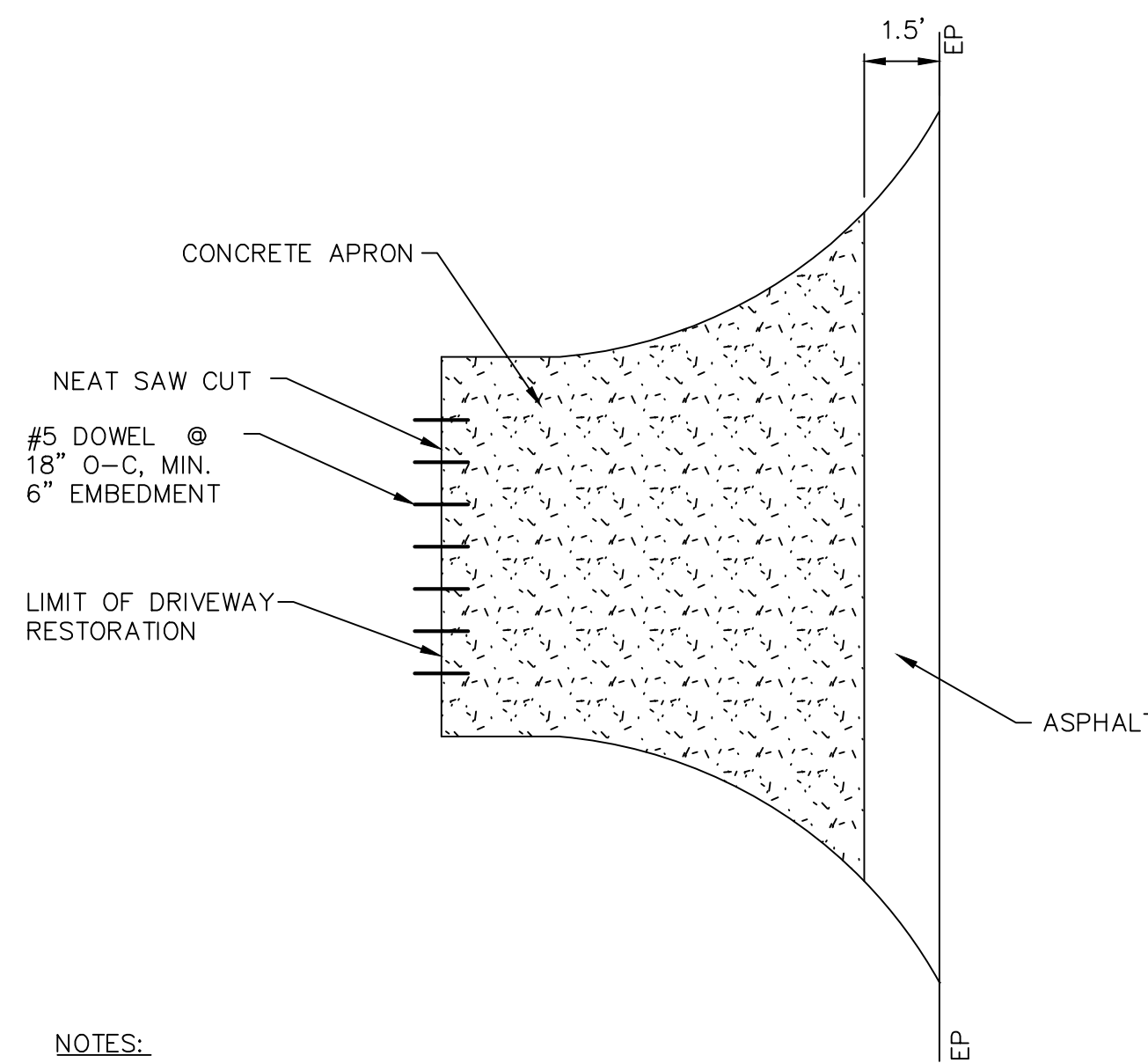
EROSION & SEDIMENTATION  
CONTROL NOTES

PROJECT NO.	181039
DISCIPLINE	CIVIL
SHEET NAME	ESC-1
SHEET	OF
16	25





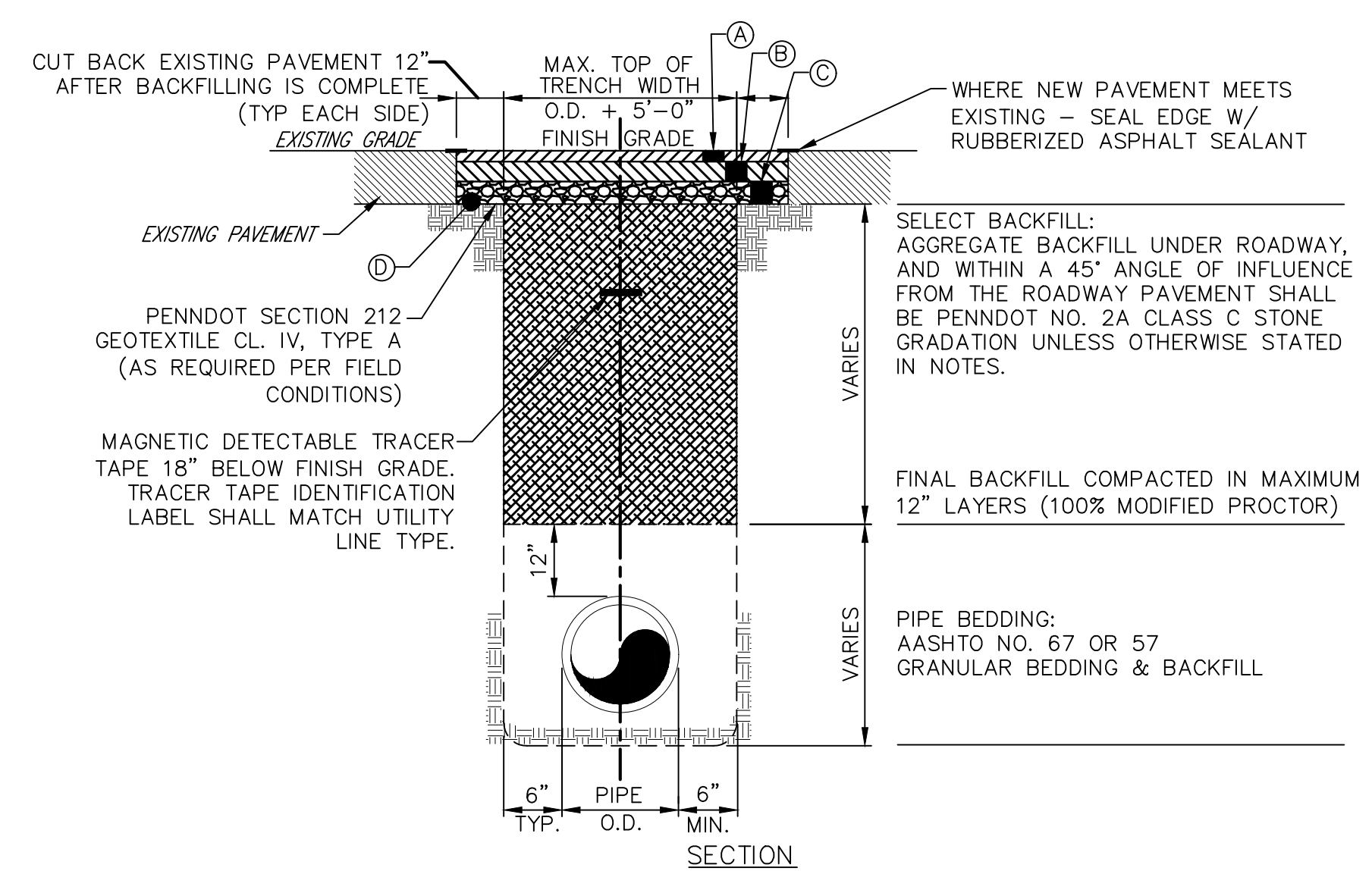
**PAVEMENT BUTT JOINT DETAIL**  
NOT TO SCALE



**NOTES:**

- WHERE A CONCRETE DRIVEWAY APRON REQUIRES REPLACEMENT, THERE SHALL BE AN 18" STRIP OF ASPHALT INSTALLED THAT ABUTS THE ROADWAY TO PROVIDE A SMOOTH TRANSITION.
- RESTORE EXISTING DRIVEWAY FROM EDGE OF PAVEMENT TO 5' BEYOND EXCAVATION. FOR CONCRETE DRIVEWAYS, EXTEND RESTORATION TERMINATION TO FIRST CONSTRUCTION JOINT.

**CONCRETE DRIVEWAY REPLACEMENT DETAIL**  
NOT TO SCALE



**APPROVED BEDDING & BACKFILL:**

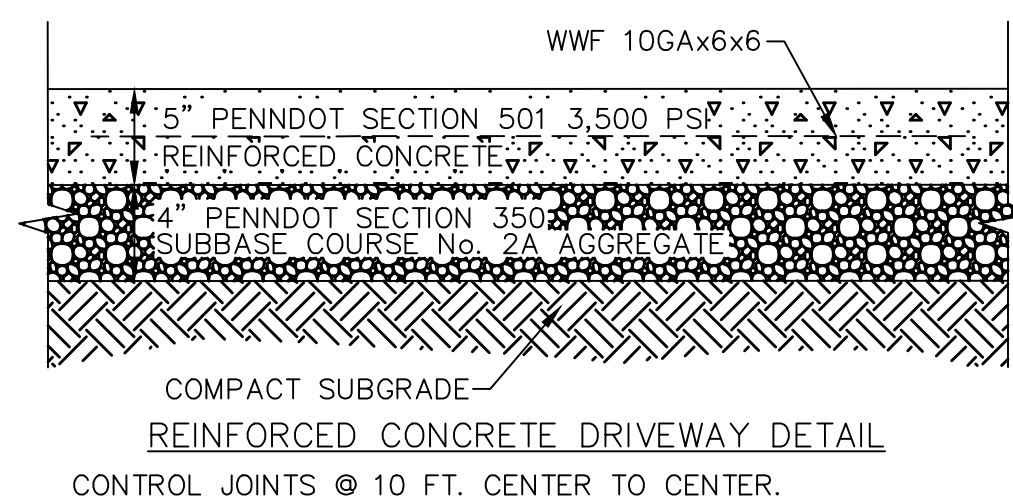
- SLAG NOT PERMITTED AS BEDDING OR BACKFILL IN ANY TRENCH.
- 6" MIN SIDE BEDDING.
- COMPACTED BACKFILL LAYERS SHALL CONFORM TO PENNDOT PUB 408. A MAXIMUM LIFT OF 8" IF VIBRATORY COMPACTED AND 4" MAXIMUM LIFT IF BY HAND OR MECHANICAL TAMPER.

**SPECIFICATION NOTES:**

SUPERPAVE ASPHALT MIX DESIGN:  
HMA WEARING COURSE PG64-22, 0.3 TO 3.0 MILLION SEALS, 1½" DEPTH, 9.5MM MIX, SRL-L  
HMA BINDER COURSE PG64-22, 0.3 TO 3.0 MILLION SEALS, 4" DEPTH, 19MM MIX

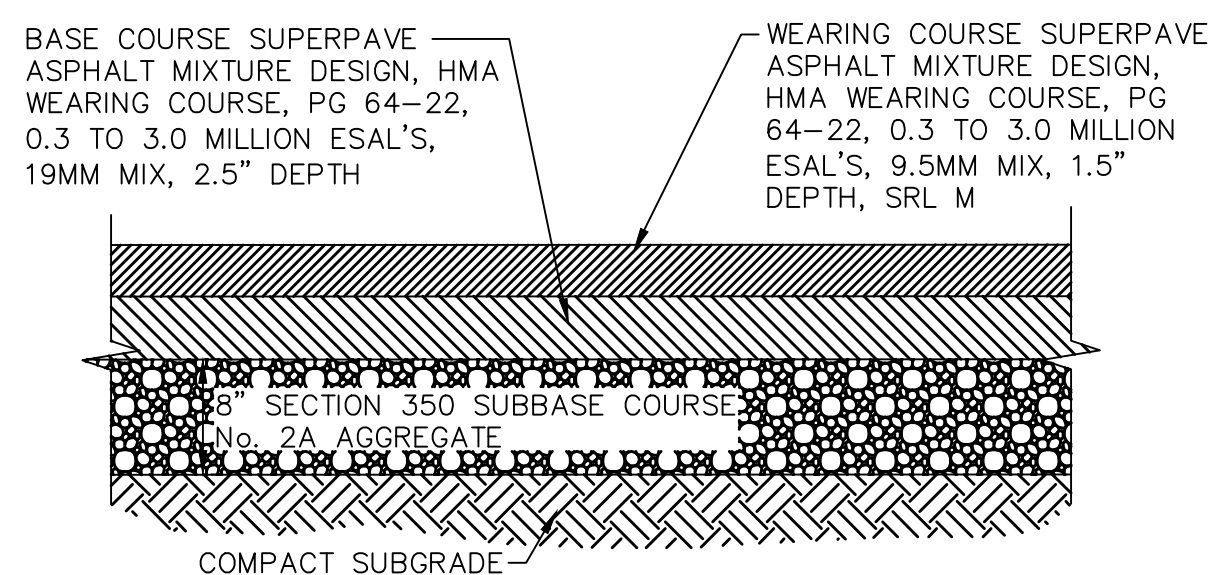
- (1½" MINOR AND/OR 2" MAJOR) - PENNDOT SECTION 409 9.5MM SUPERPAVE HMA WEARING COURSE
- (2½" MINOR AND/OR 4" MAJOR) - PENNDOT SECTION 409 19MM SUPERPAVE HMA BINDER COURSE
- 12" MINOR AND/OR 12" MAJOR - PENNDOT SECTION 350, No. 2A SUBBASE MATERIAL COMPACTED 100% STANDARD PROCTOR
- SUBGRADE SHALL BE COMPACTED AND PREPARED ACCORDING TO PENNDOT SECTION 206 & 210
- IF EXISTING PAVEMENT THICKNESS IS GREATER THAN PROPOSED SECTION, CONTRACTOR SHALL MATCH EXISTING PAVEMENT THICKNESS & PROFILE

**TRENCH BACKFILL DETAIL PAVED AREAS**  
NOT TO SCALE



**REINFORCED CONCRETE DRIVEWAY DETAIL**  
CONTROL JOINTS @ 10 FT. CENTER TO CENTER.

ON CONCRETE DRIVES, SAWCUT AND REMOVE EXISTING DRIVE 5' BEYOND FURTHEST SUBGRADE UTILITY LINE IMPROVEMENT OR AT FIRST FULL PAVEMENT SECTION JOINT (WHICHEVER OCCURS FIRST). MATCH EXISTING PAVEMENT ELEVATIONS.

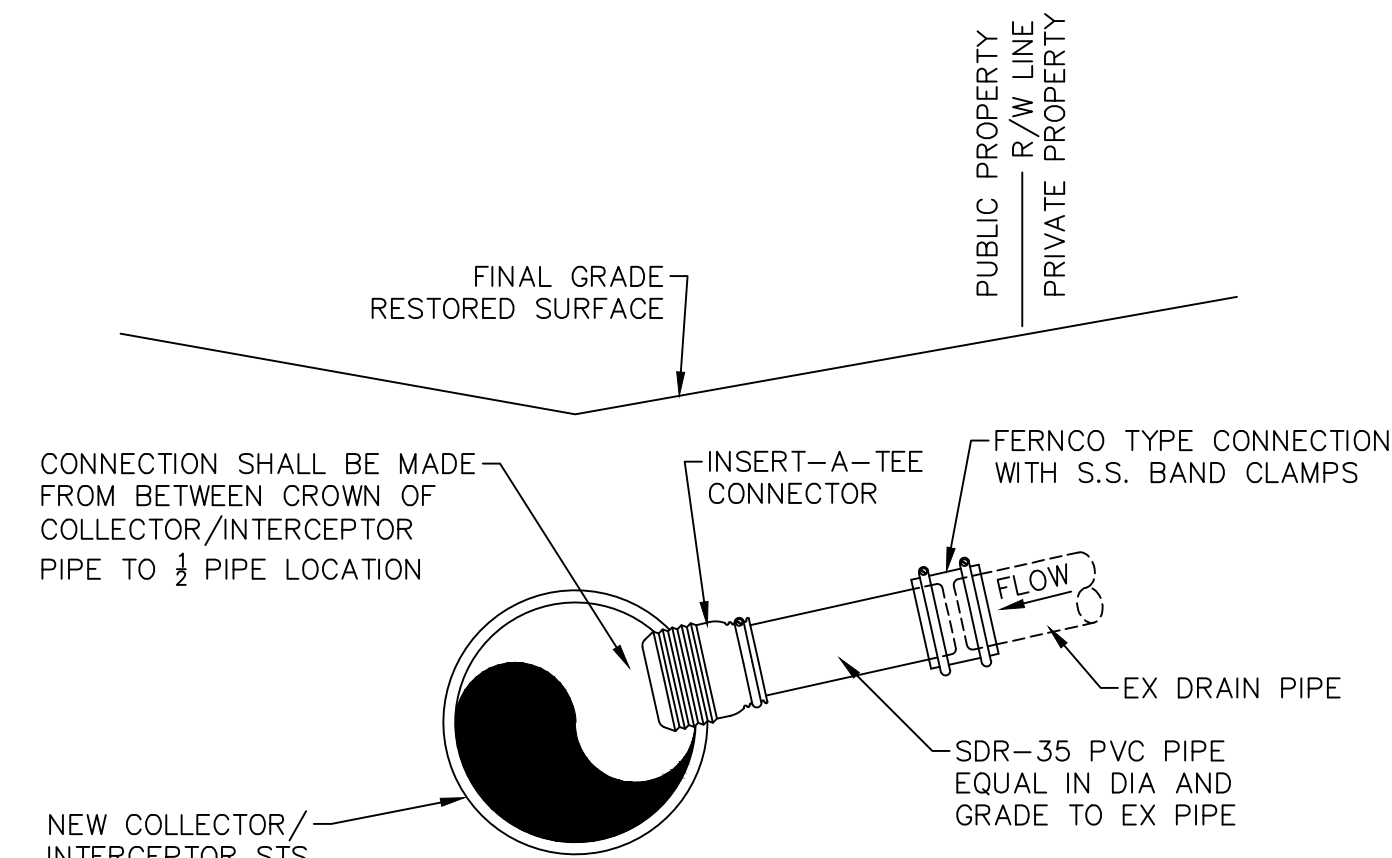


**ASPHALT DRIVEWAY DETAIL**

**NOTES:**

- FOR ALL REINFORCED OR PLAIN CEMENT CONCRETE PAVEMENTS REFERENCE SECTION 501 OF PENNDOT PUB 408. ALL CONCRETE DRIVEWAYS TO BE PLAIN CONCRETE UNLESS OTHERWISE NOTED.
- ALL SUBGRADE FINISH GRAVEL SURFACE SHALL BE COMPACTED PER PENNDOT PUB 408 SECTION 210.
- WHERE FULL WIDTH ROAD REPLACEMENT OCCURS, ROADWAY SHALL BE CONSTRUCTED WITH 0.25"/FT. SLOPE, SLOPING AWAY FROM ROADWAY CENTER EACH WAY.
- ALL SAW CUTS SHALL BE NEATLY PERFORMED AND SEALED WITH RUBBERIZED SEALANT 4" WIDE CENTERED IN THE SEAM.

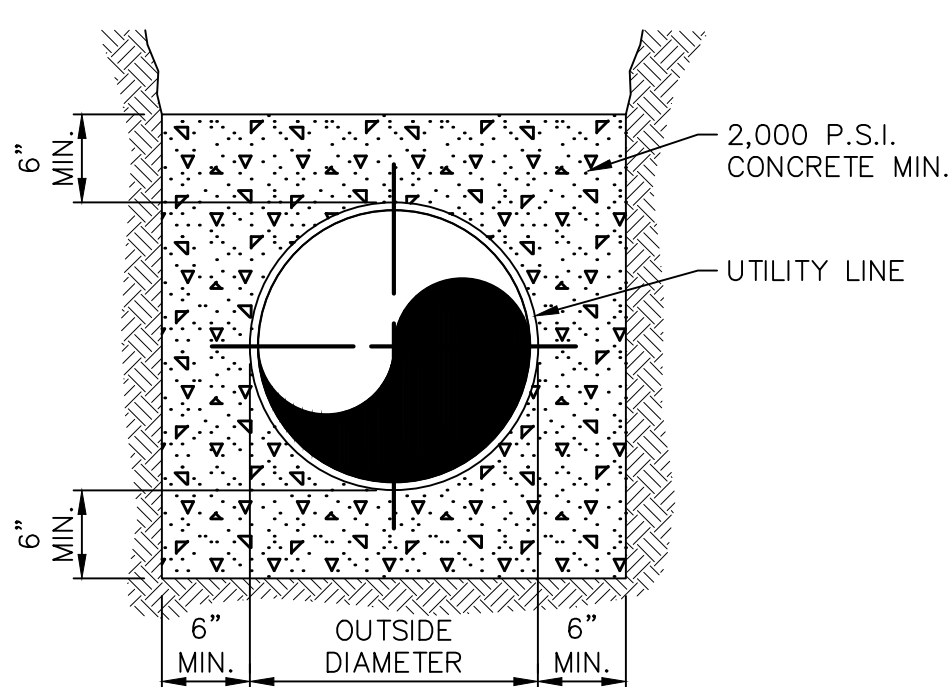
**DRIVEWAY REPLACEMENT DETAILS**  
NOT TO SCALE



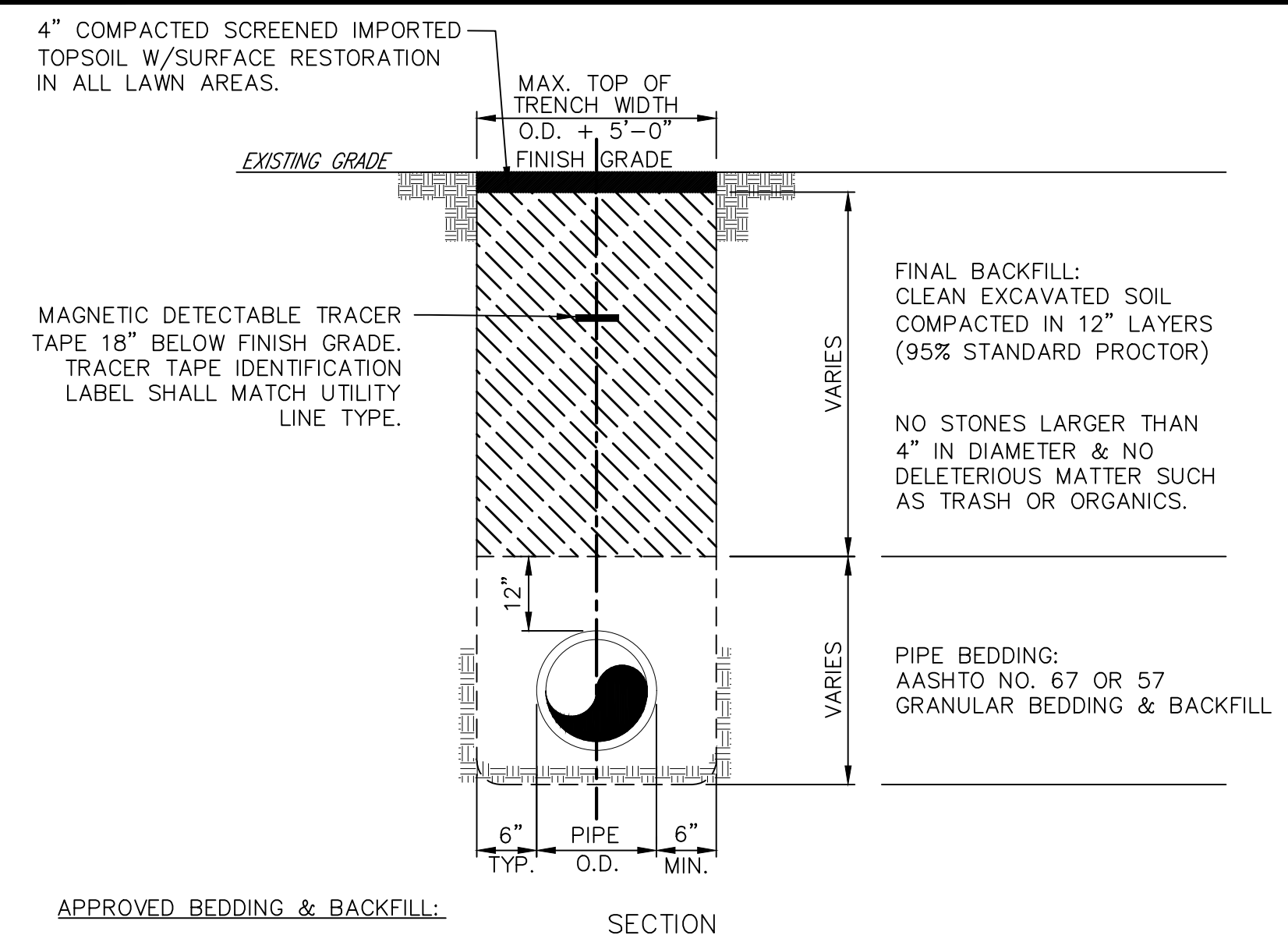
**NOTES:**

- BED AND BACKFILL NEW DRAIN PIPE AND CONNECTION AND RESTORE SURFACE PER TRENCH BACKFILL DETAIL.
- CONNECTION WORK TO BE CONTAINED WITHIN EX PUBLIC R/W.
- OWNER/ENGINEER WILL INSPECT DRAIN PIPE ENCOUNTERED AND EXPOSED BY THE CONTRACTOR. CONTRACTOR WILL CONNECT DRAIN LINES APPROVED TO BE CONNECTED BY OWNER/ENGINEER.

**DRAIN PIPE CONNECTION DETAIL**  
NOT TO SCALE



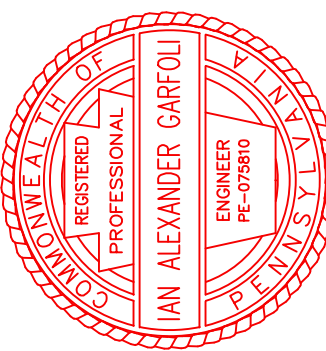
**TYPICAL PIPE ENCASUREMENT**  
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**APPROVED BEDDING & BACKFILL:**

- SLAG NOT PERMITTED AS BEDDING OR BACKFILL IN ANY TRENCH.  
6" MIN SIDE BEDDING.  
COMPACTED BACKFILL LAYERS SHALL CONFORM TO PENNDOT PUB 408. A MAXIMUM LIFT OF 8" IF VIBRATORY COMPACTED AND 4" MAXIMUM LIFT IF BY HAND OR MECHANICAL TAMPER.  
SELECT BACKFILL TO BE USED WITHIN A 45' OF INFLUENCE FROM THE ROADWAY PAVEMENT.

**TRENCH BACKFILL DETAIL UNPAVED AREAS**  
NOT TO SCALE



NO	REVISION	DATE

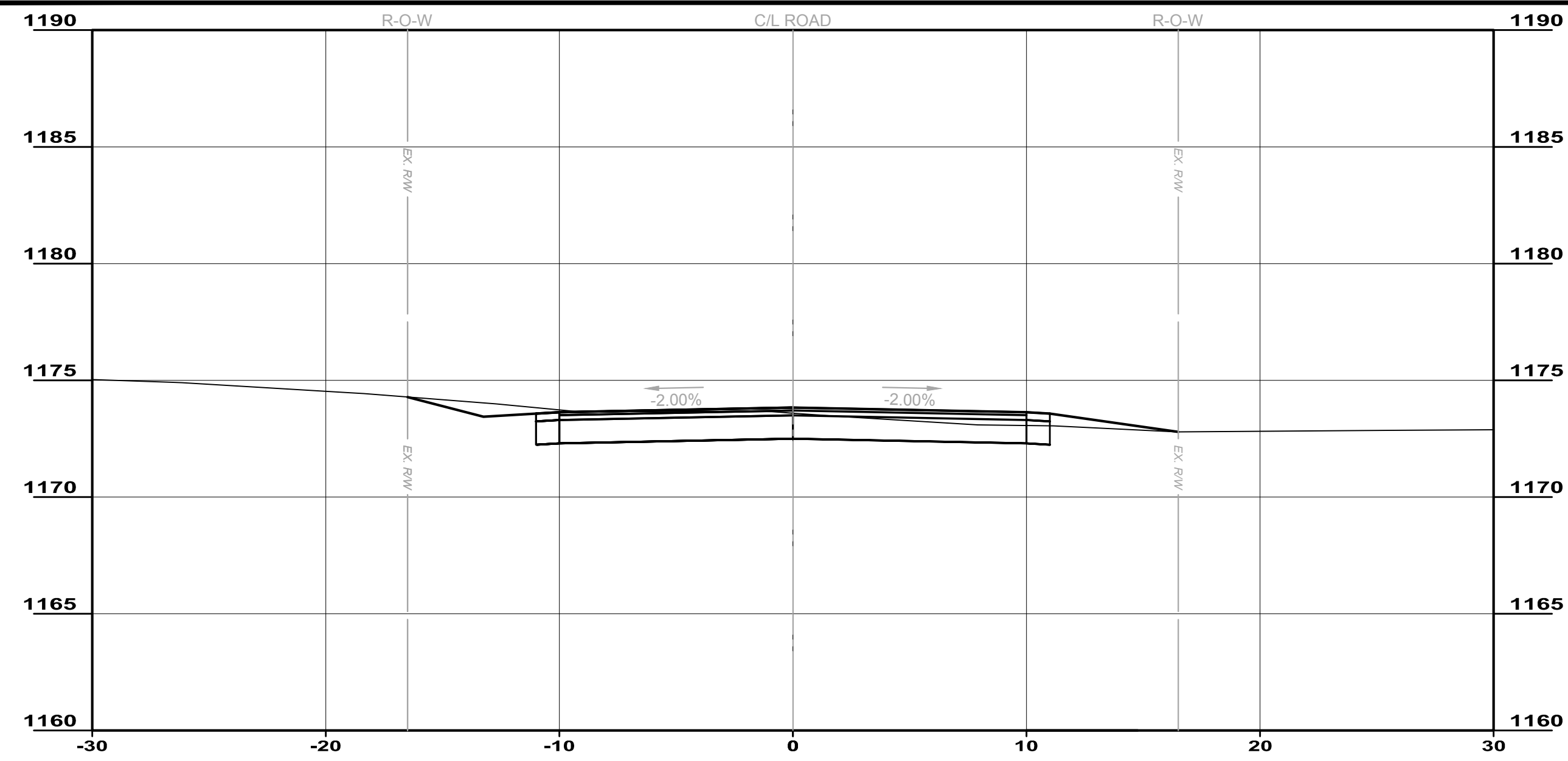
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ISSUE DATE:	SCALE:	ISSUE DATE:	SCALE:
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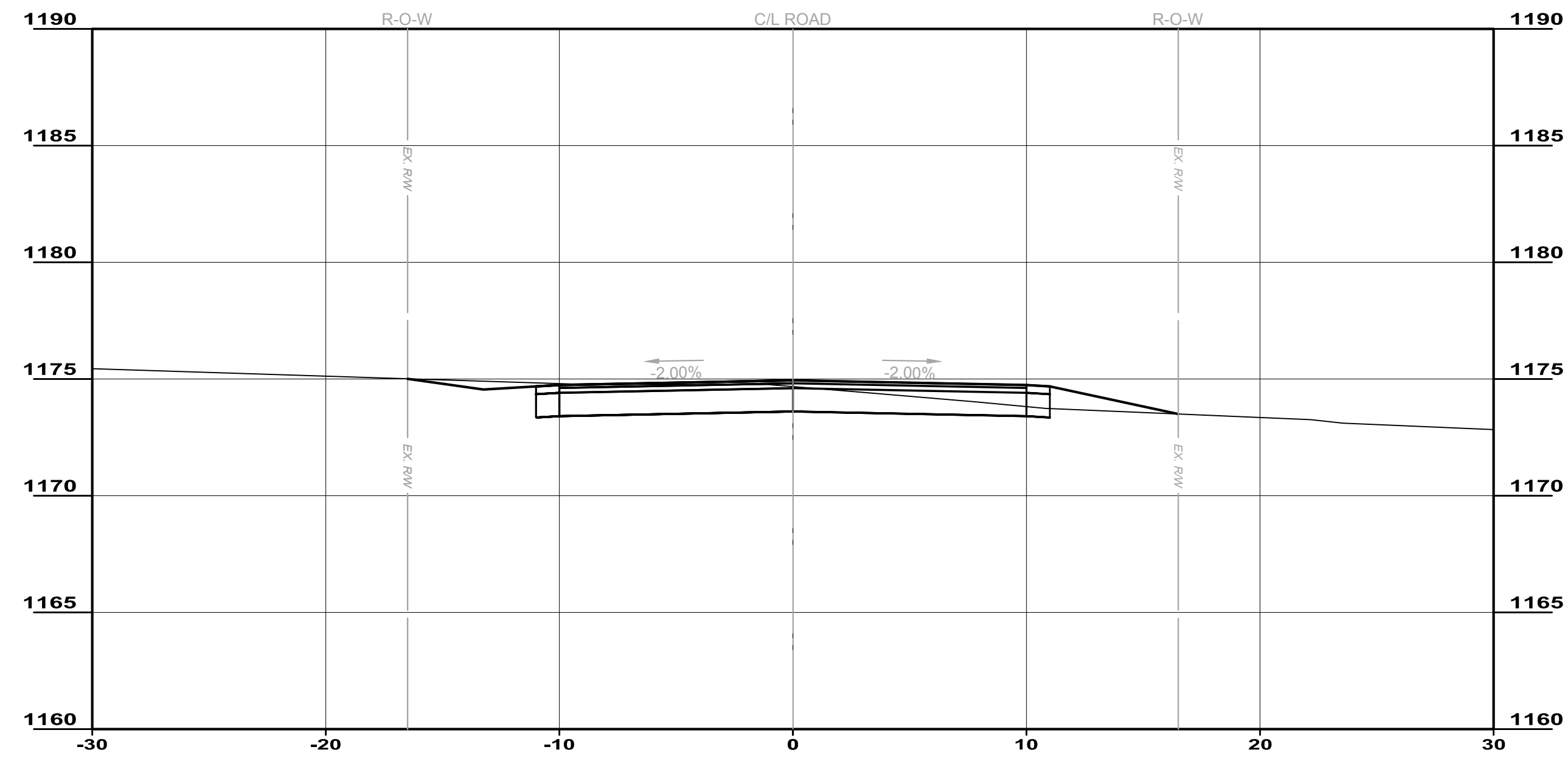
**CITY OF HERMITAGE**  
**SOUTH DARBY ROAD STORMWATER AND ROADWAY IMPROVEMENTS PROJECT**  
HERMITAGE, PENNSYLVANIA

**CONSTRUCTION DETAILS**

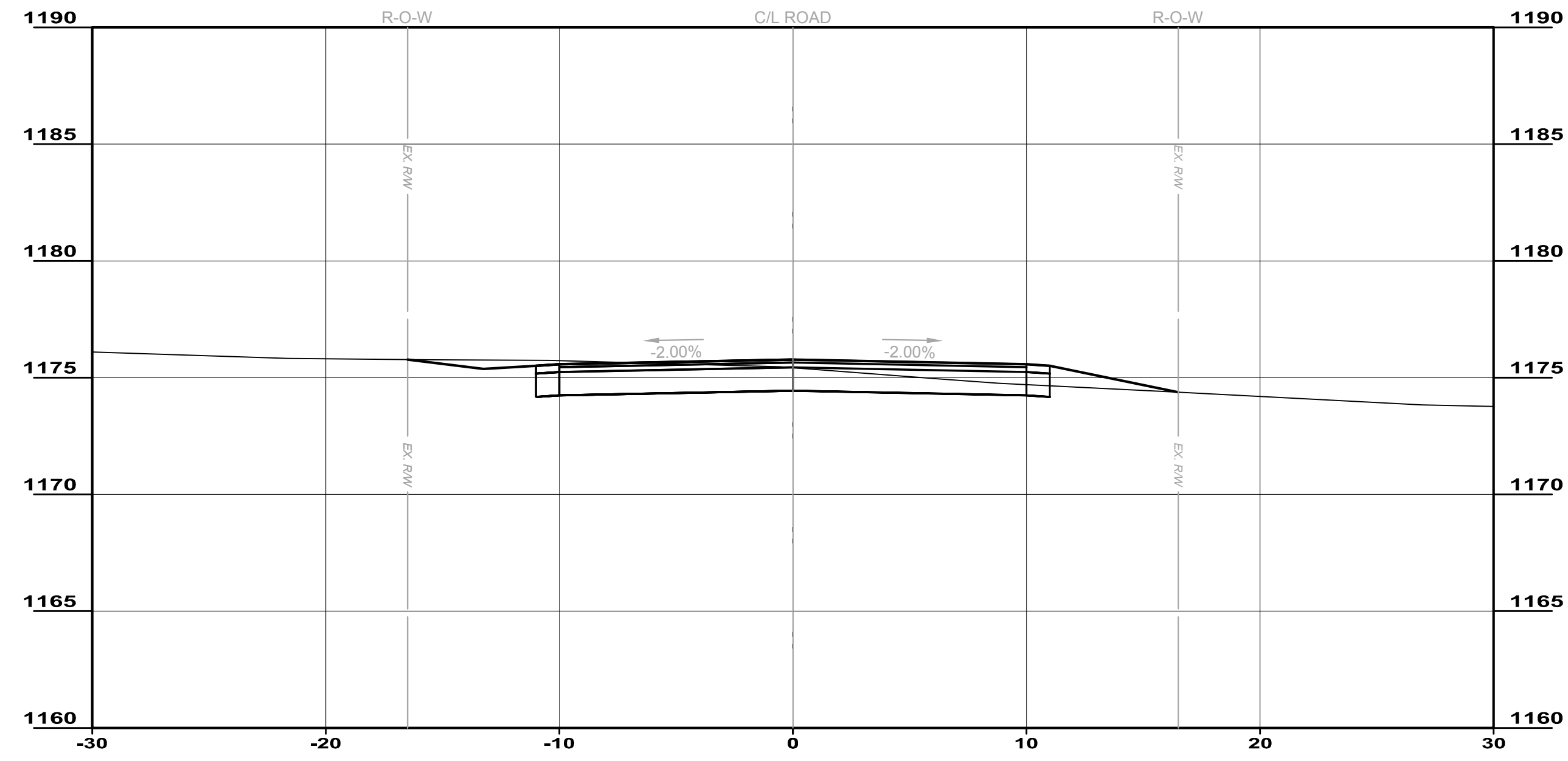
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DISCIPLINE	<b>CIVIL</b>
SHEET NAME	<b>CD-1</b>
SHEET	OF
<b>17</b>	<b>25</b>



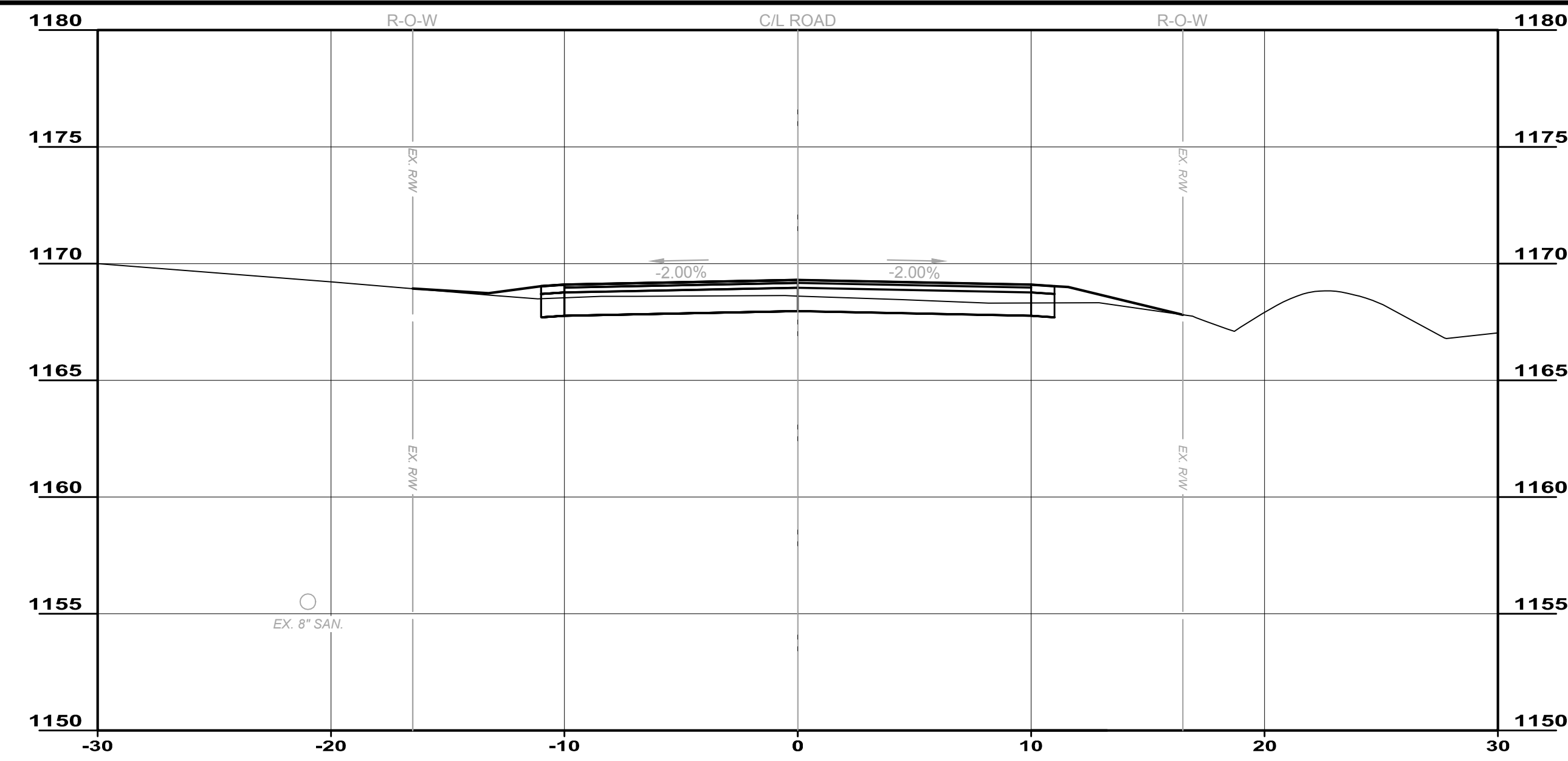
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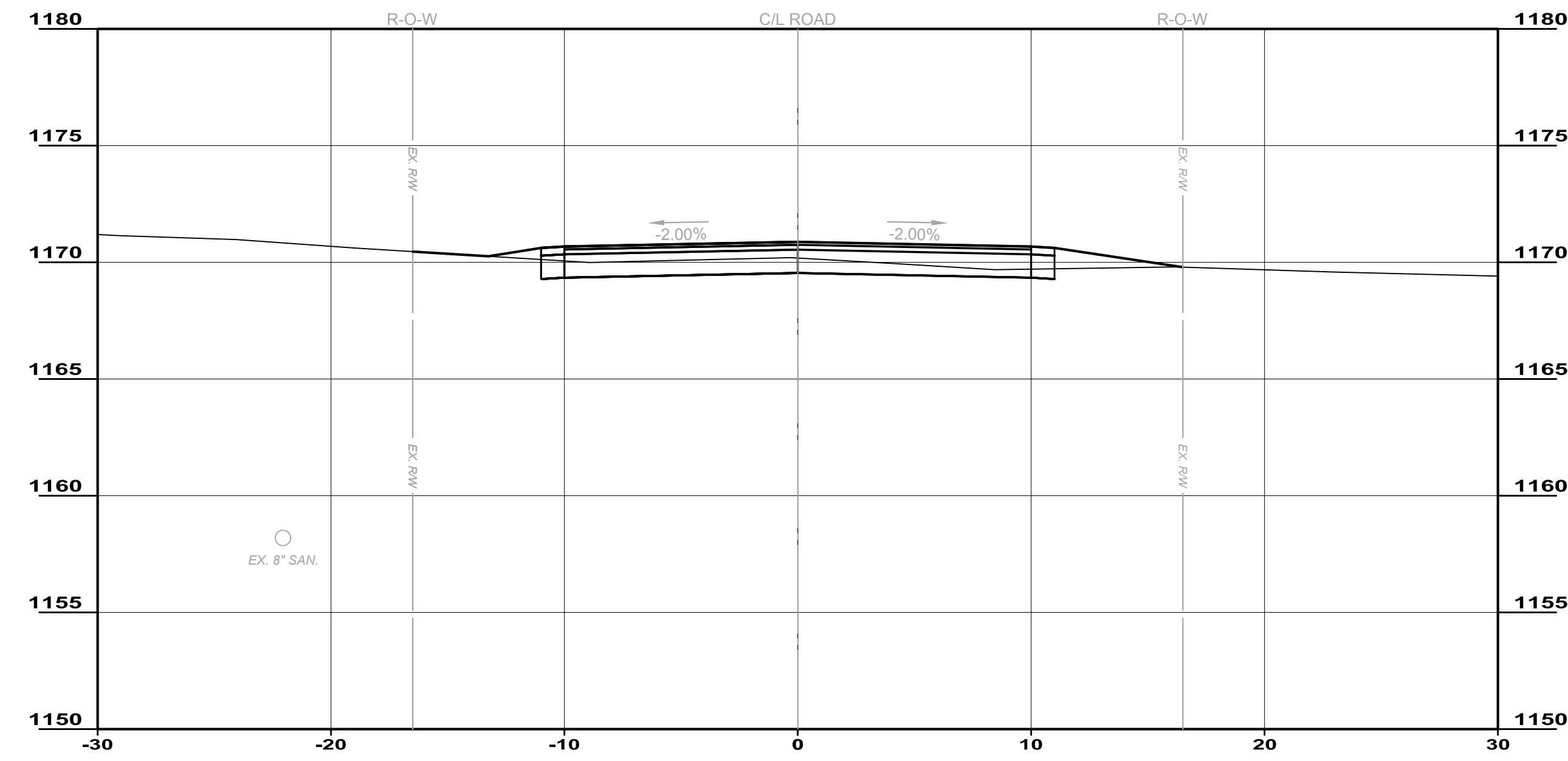
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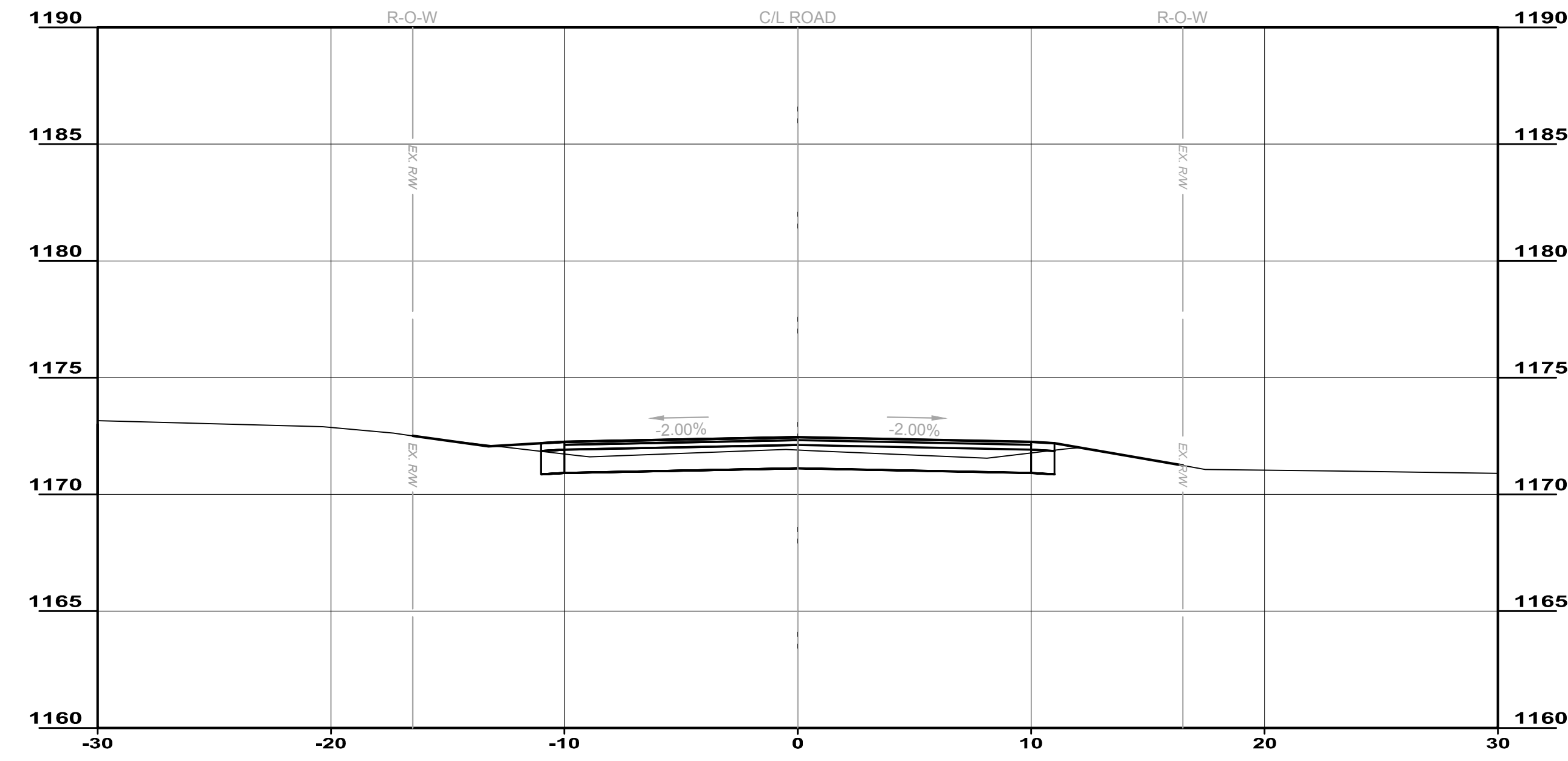
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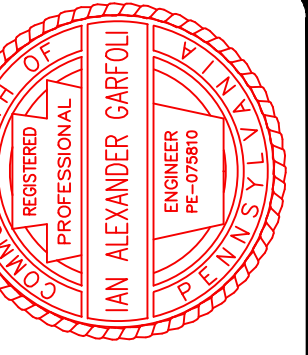
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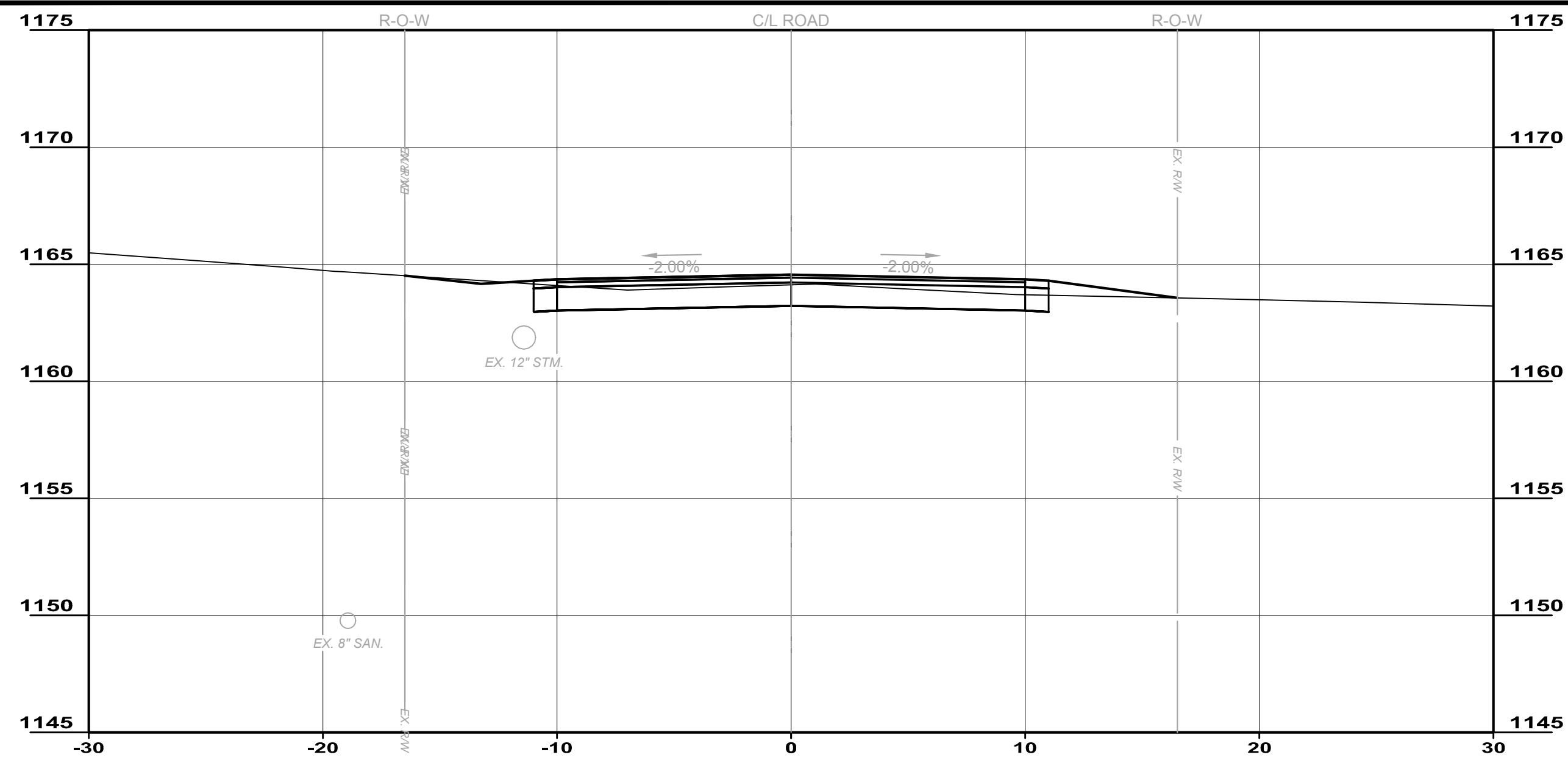
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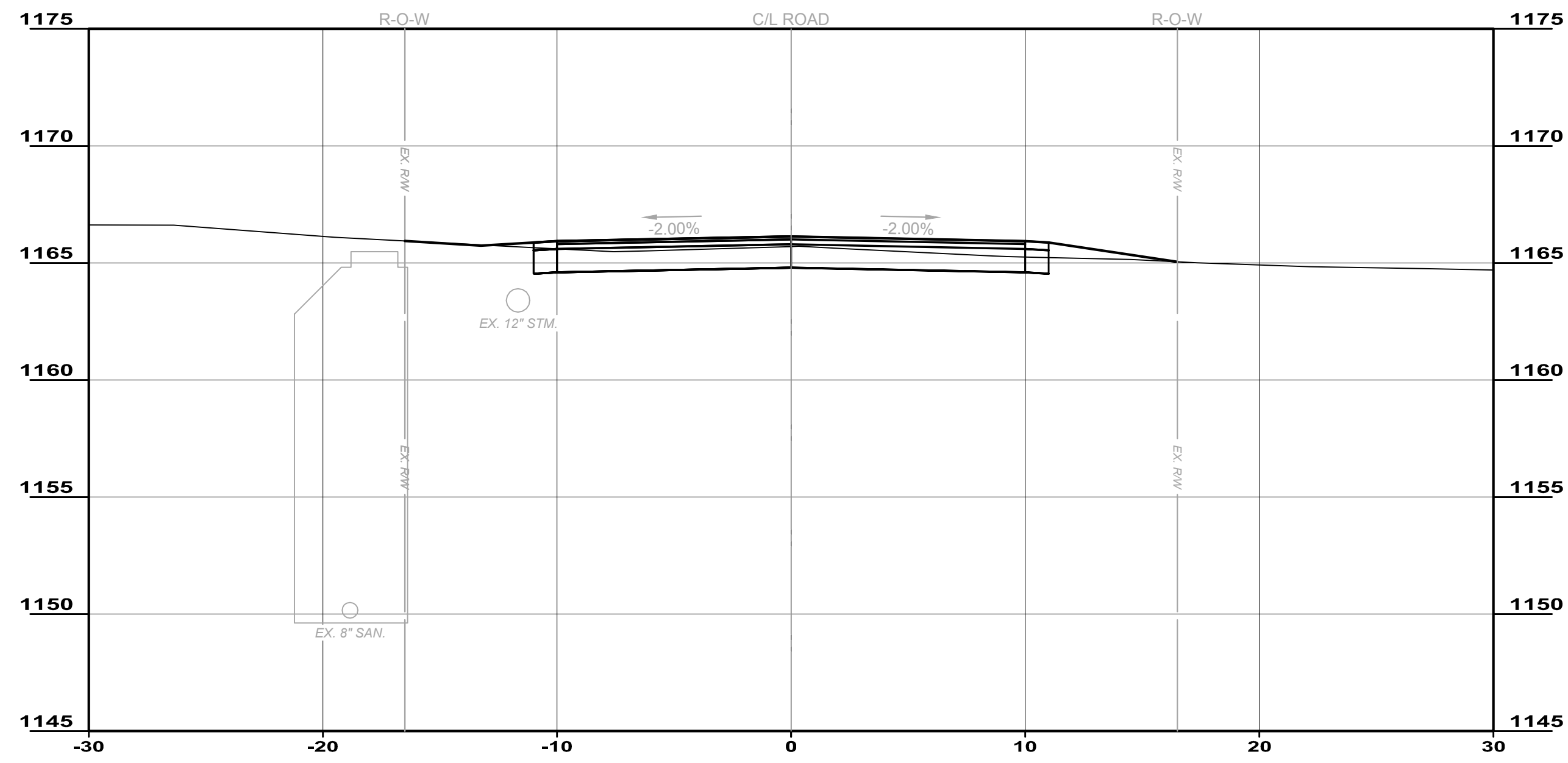
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**CITY OF HERMITAGE  
SOUTH DARBY ROAD STORMWATER AND  
ROADWAY IMPROVEMENTS PROJECT  
HERMITAGE, PENNSYLVANIA**

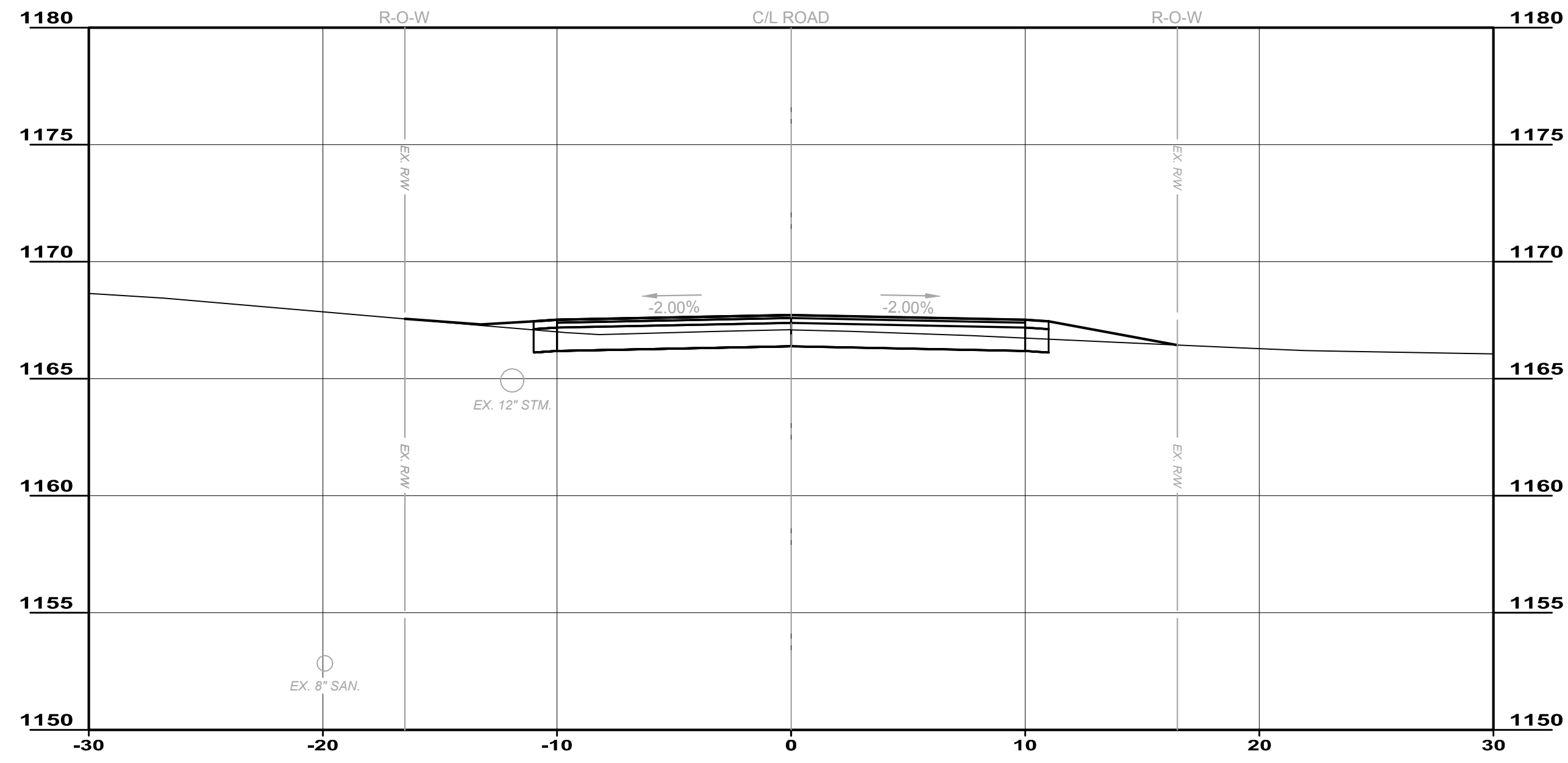
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DISCIPLINE	CIVIL
SHEET NAME	S-1
SHEET	18
OF	25



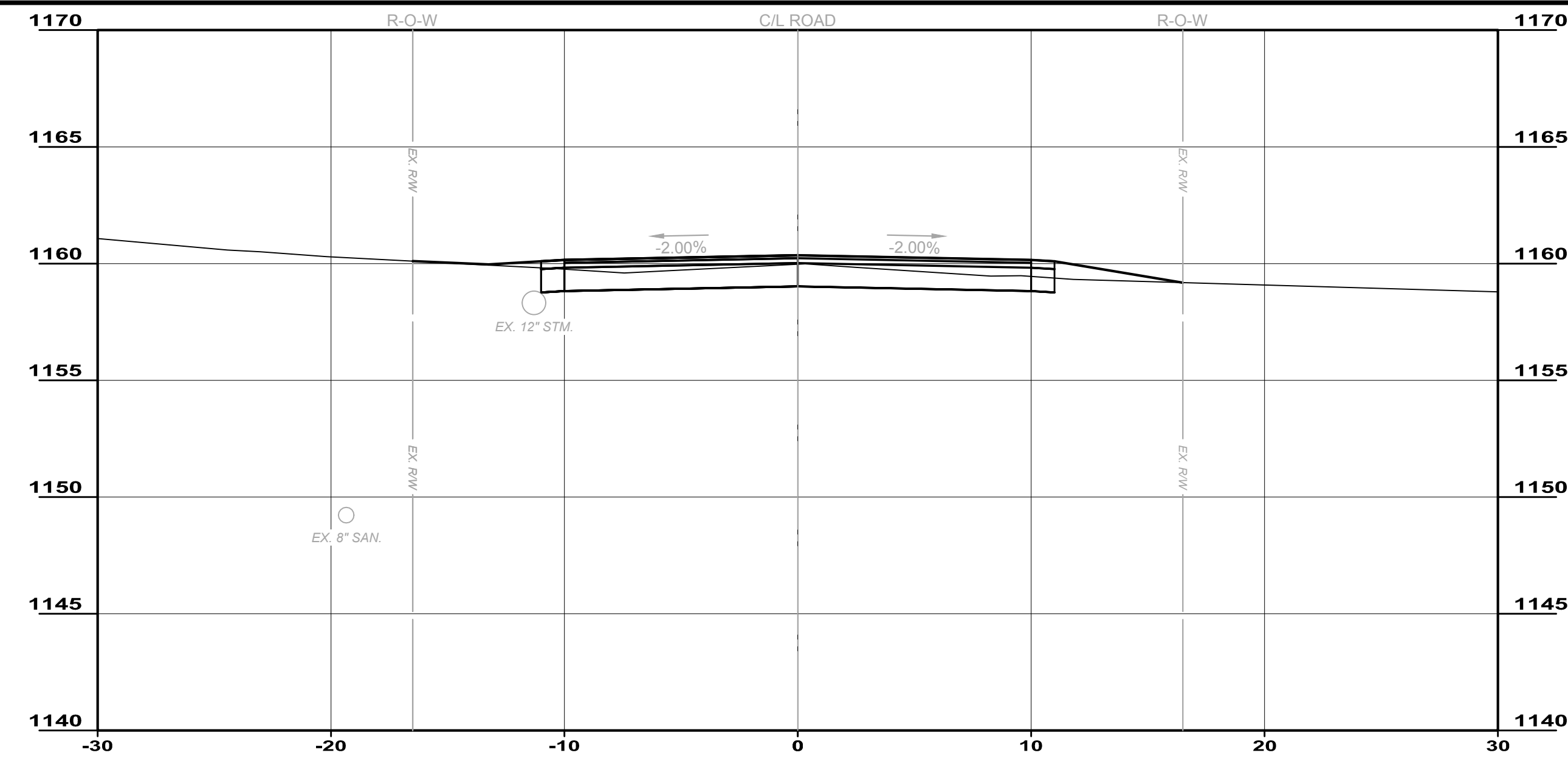
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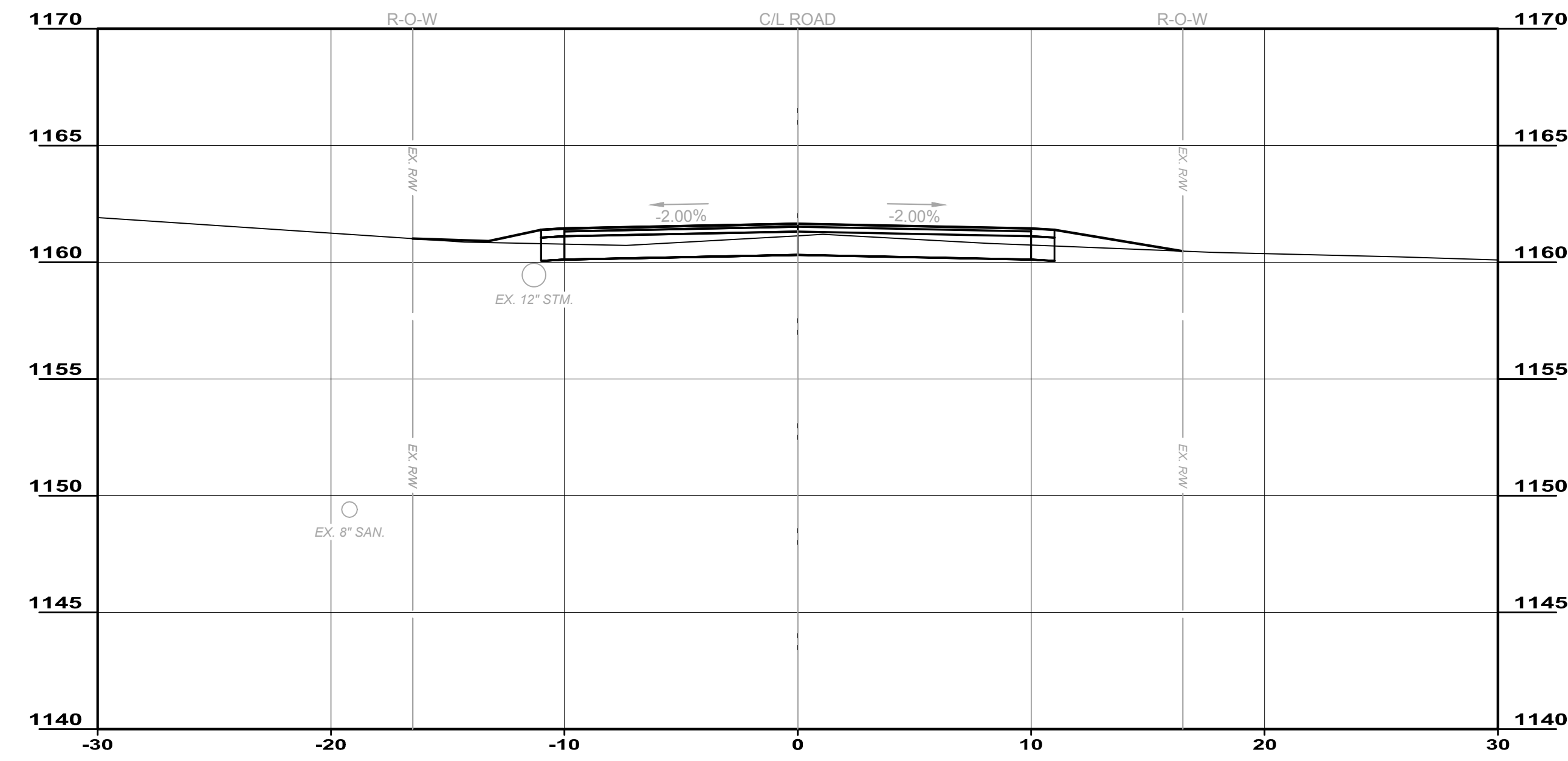
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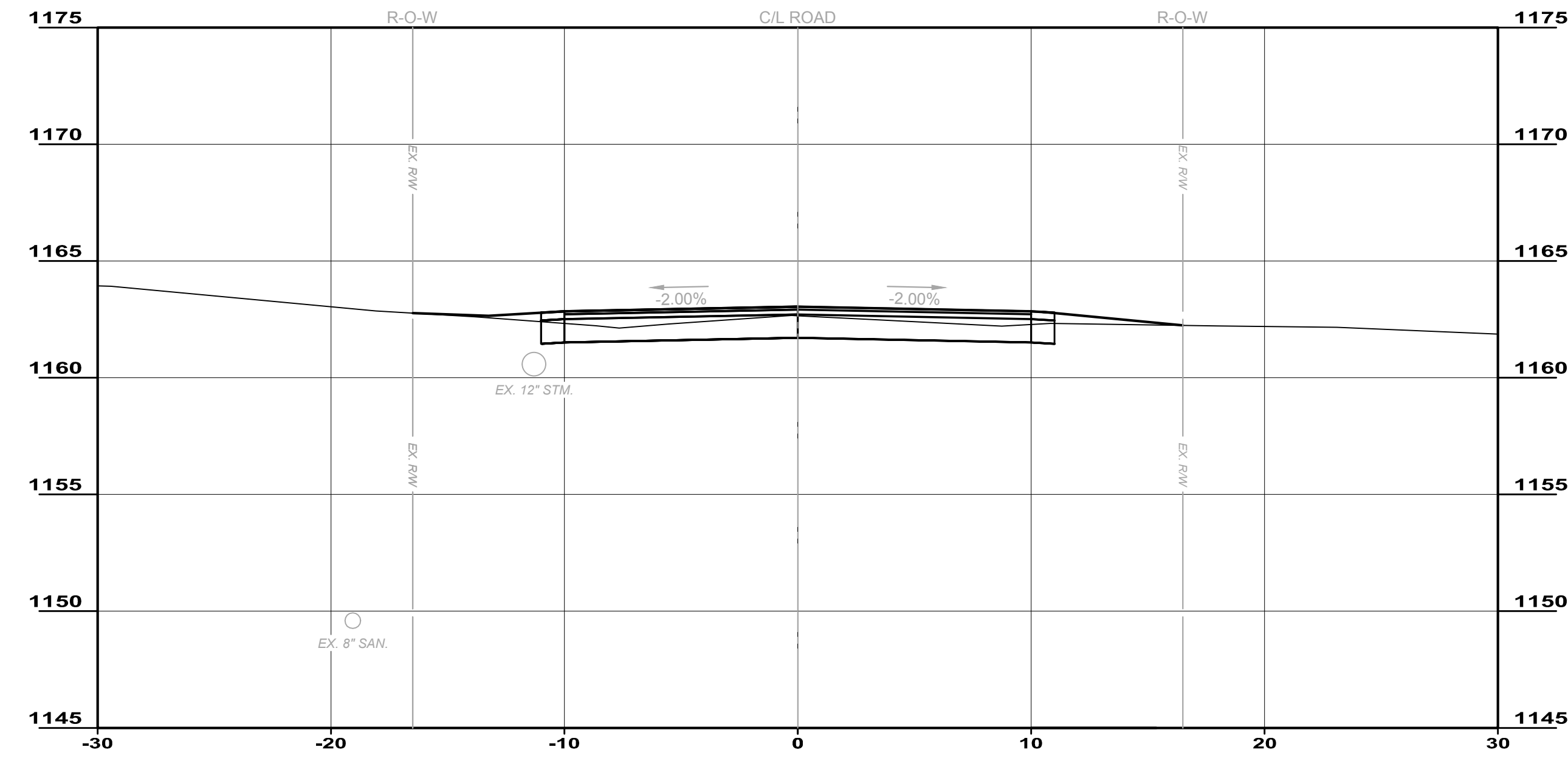
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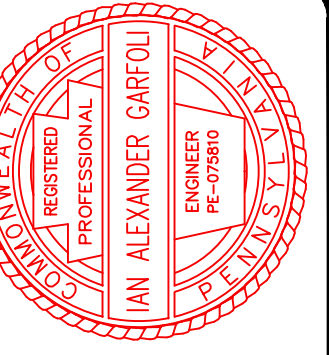
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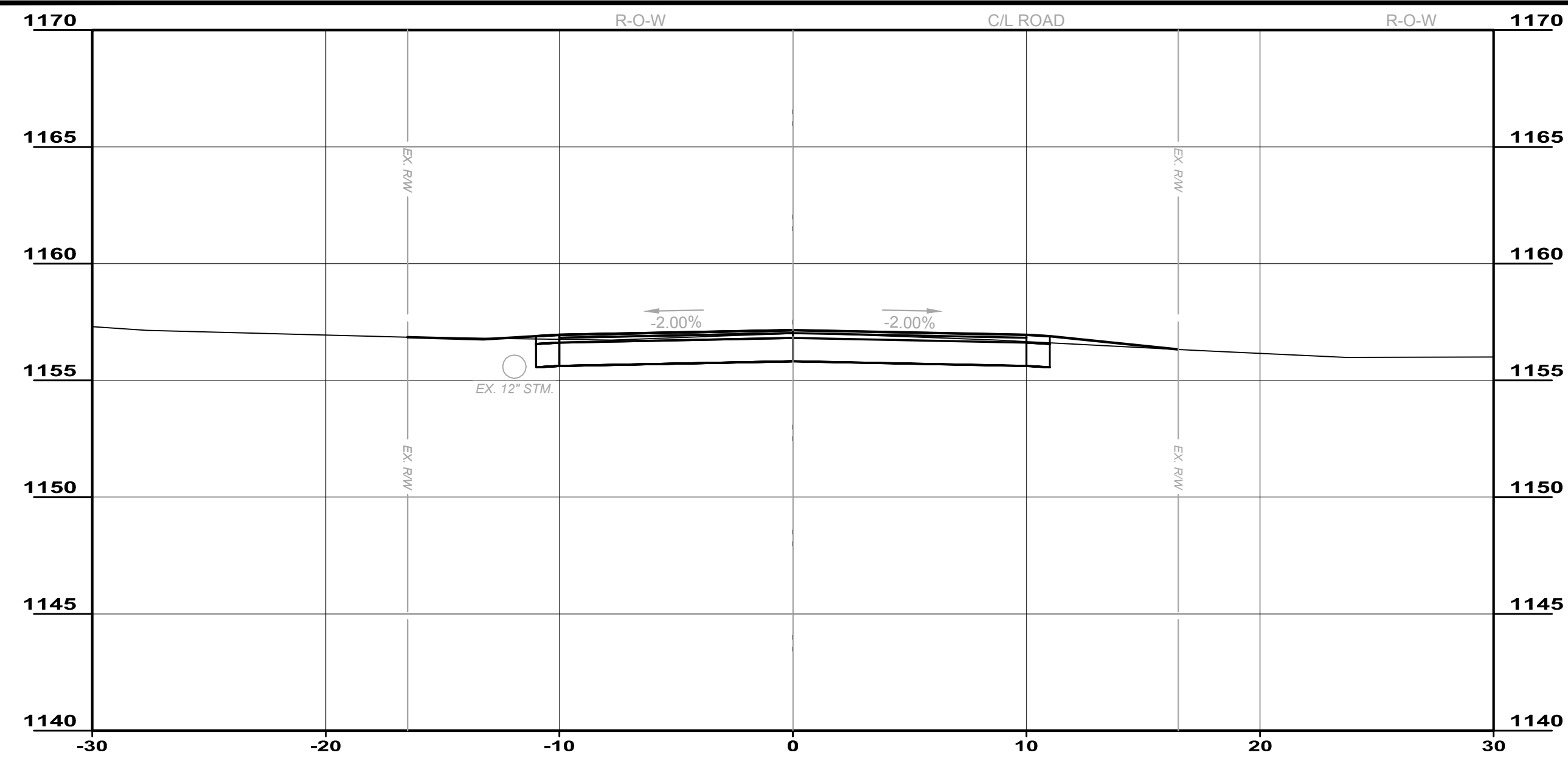


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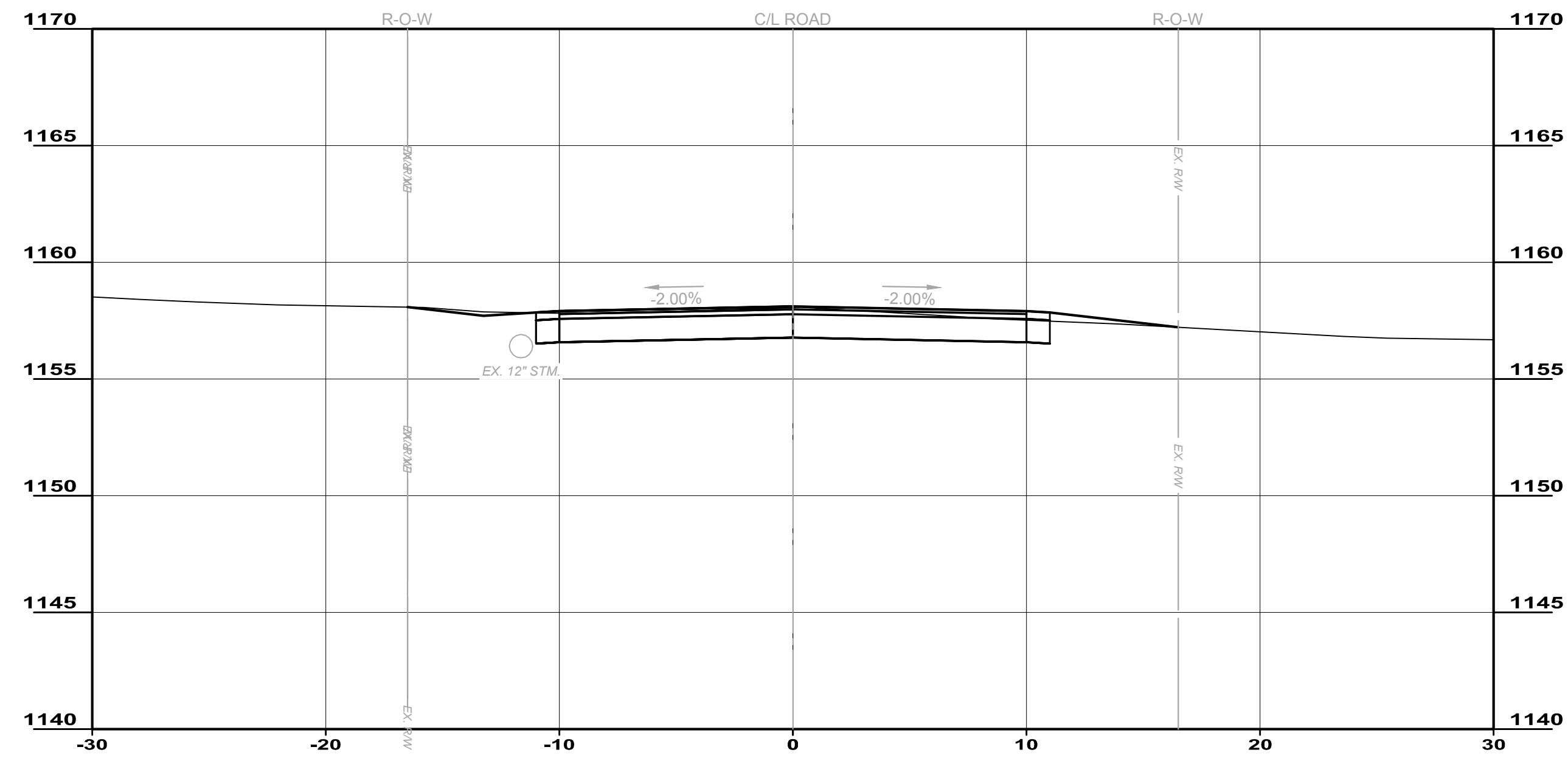
**CITY OF HERMITAGE**  
**SOUTH DARBY ROAD STORMWATER AND**  
**ROADWAY IMPROVEMENTS PROJECT**  
 HERMITAGE, PENNSYLVANIA

PROJECT NO.	181039
DISCIPLINE	CIVIL
SHEET NAME	S-2
SHEET	19
OF	25

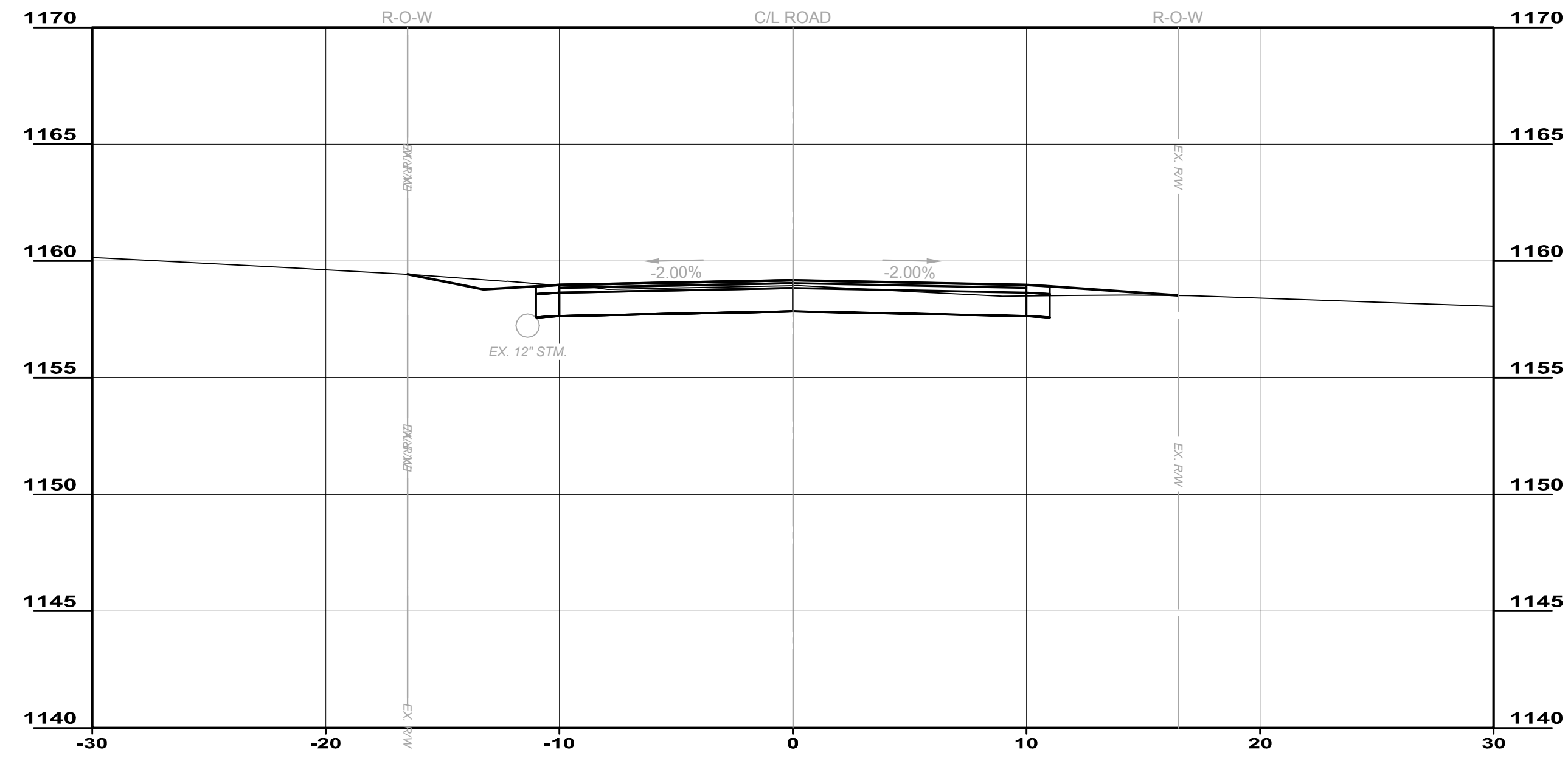
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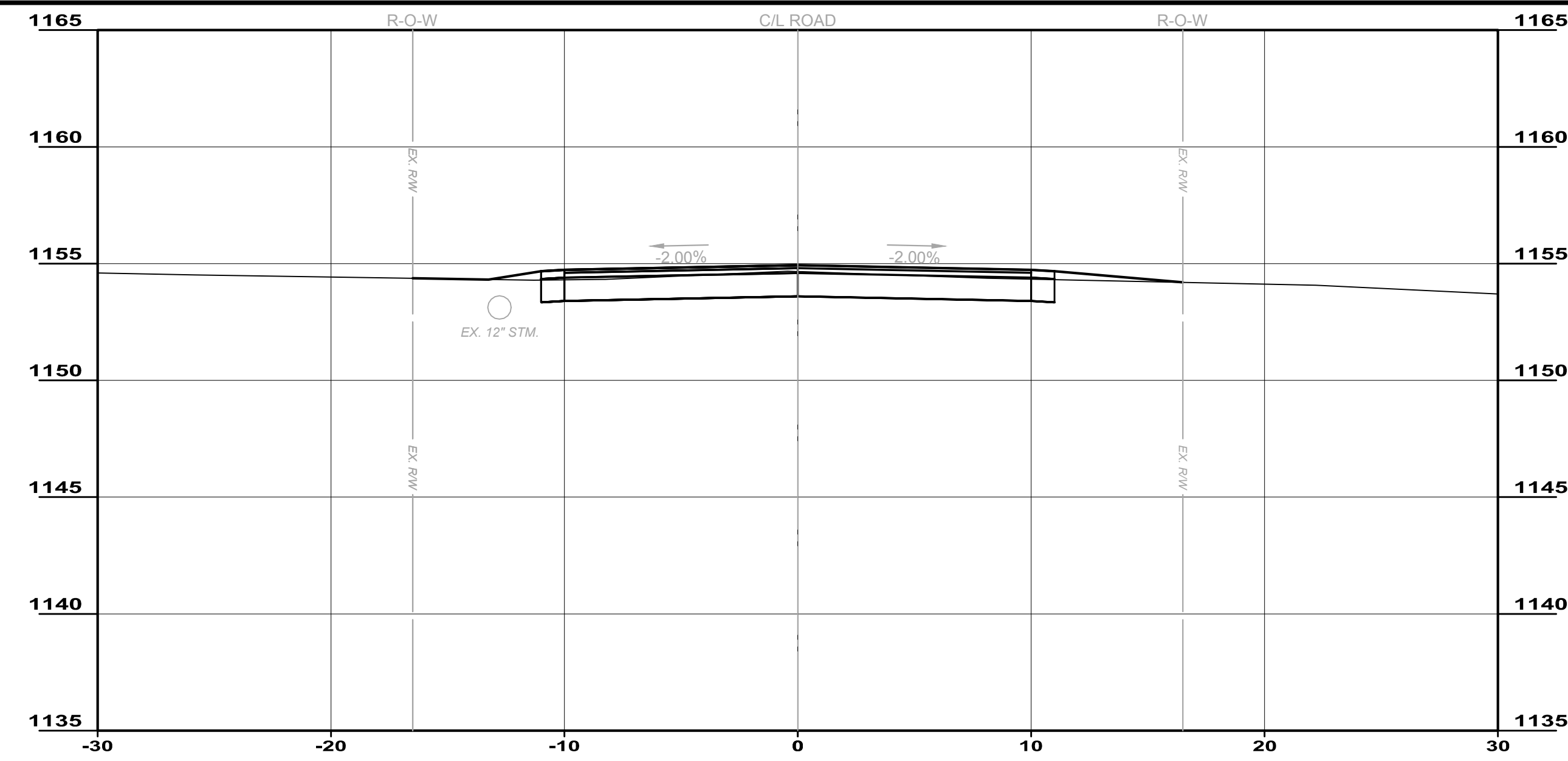
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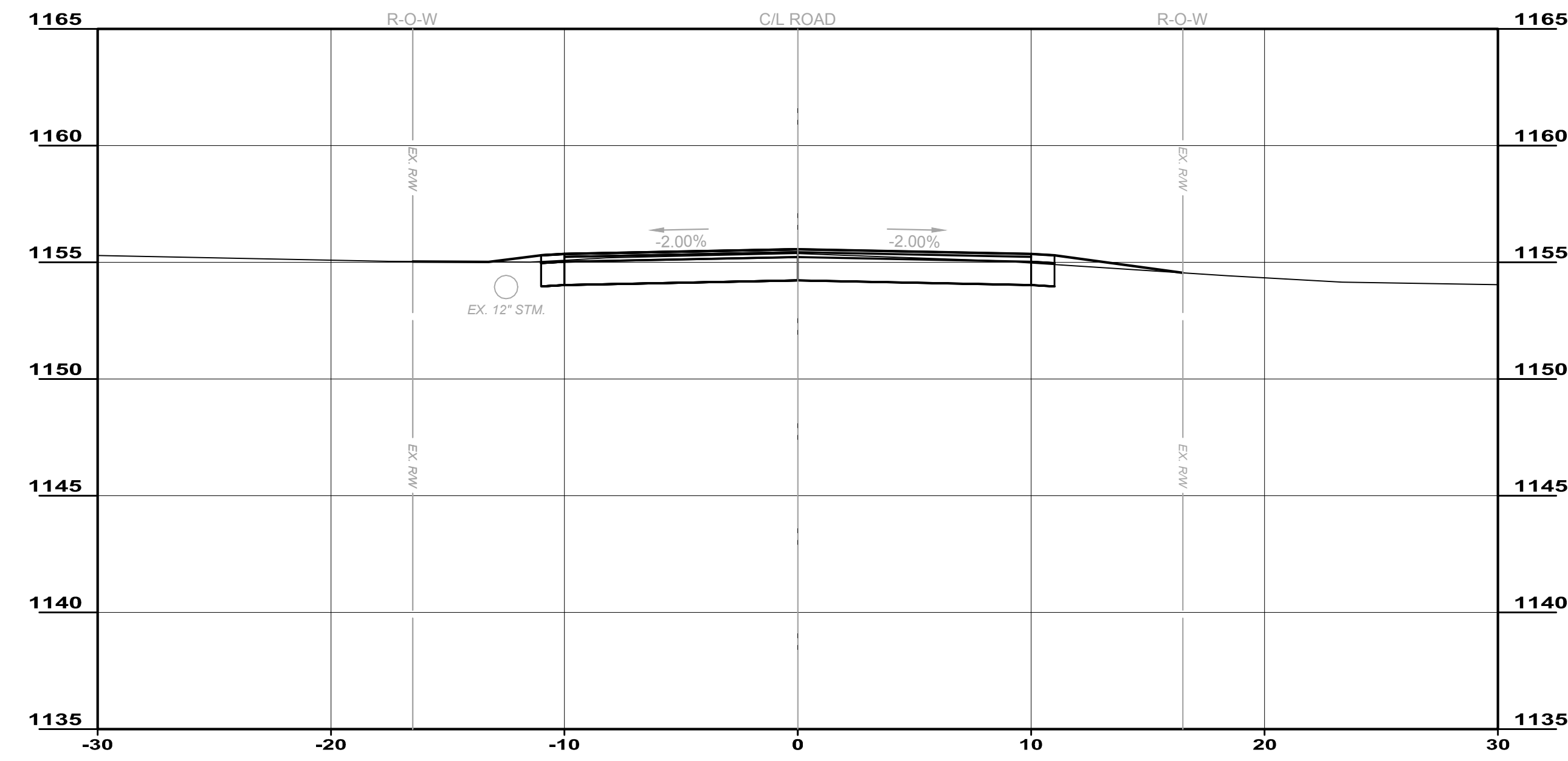
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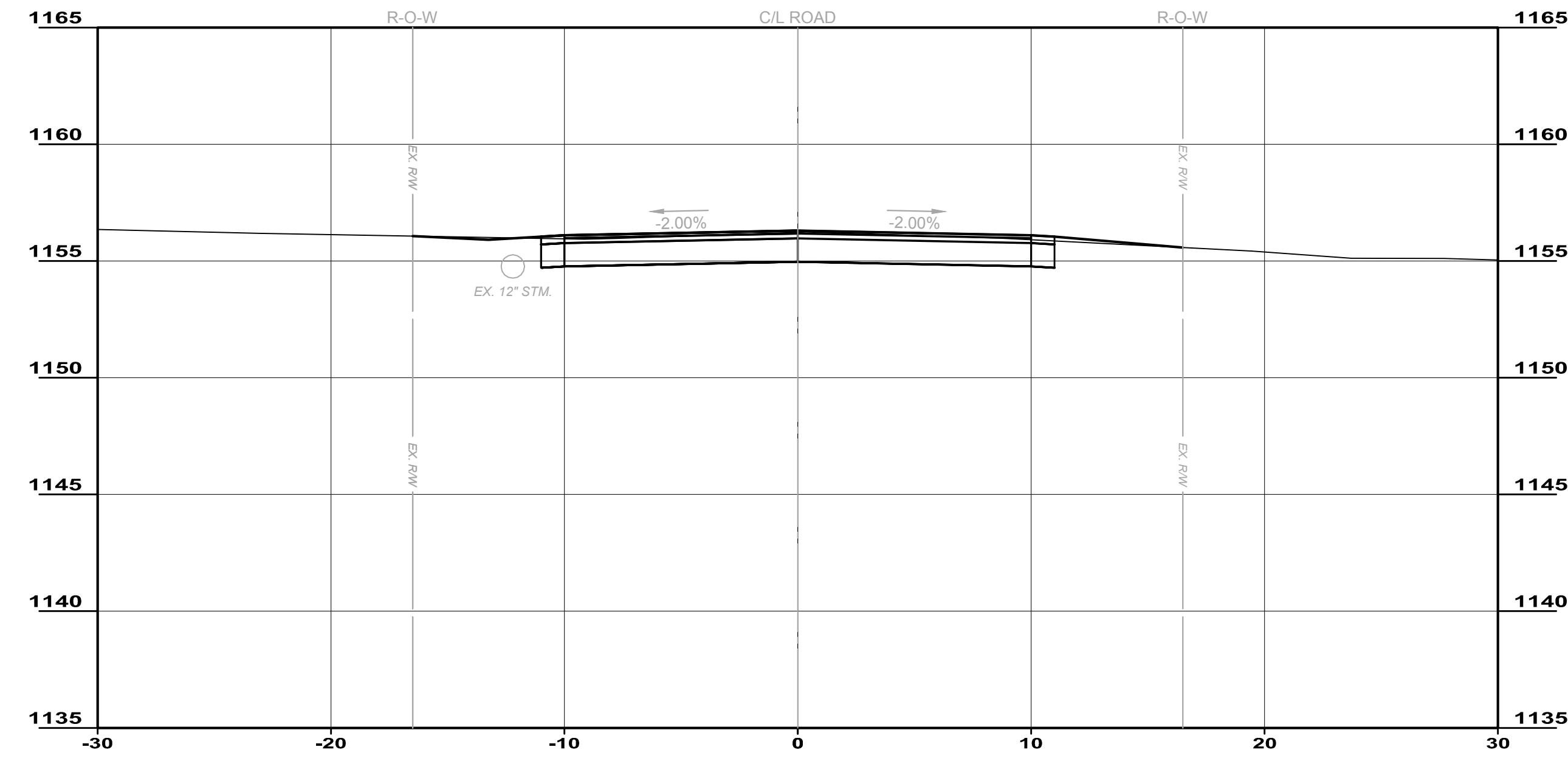
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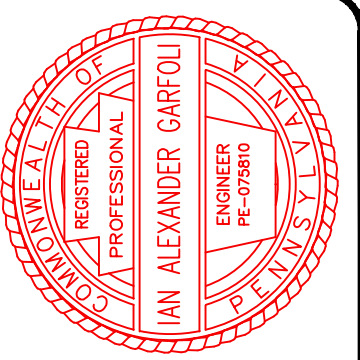
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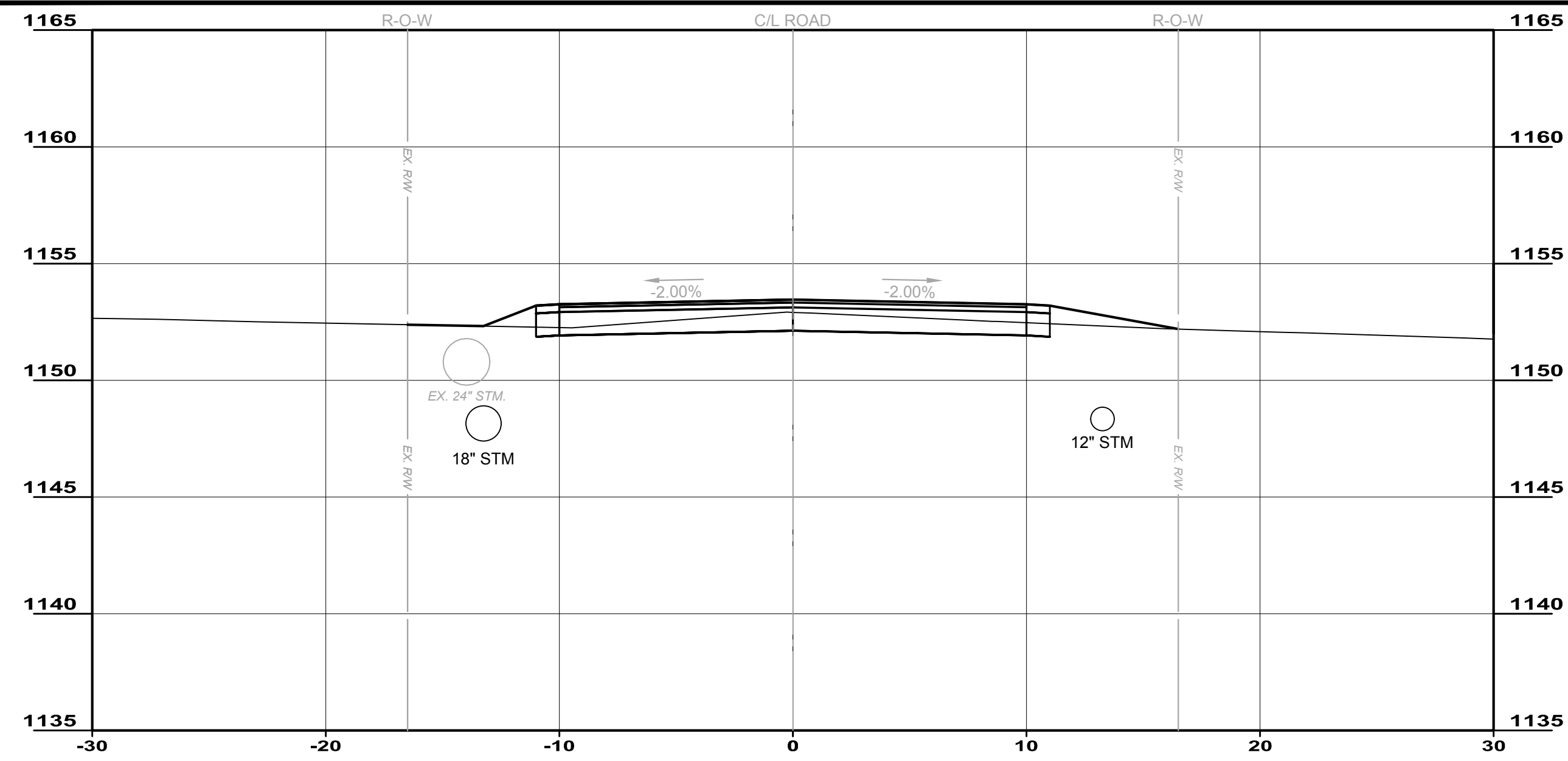
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**CITY OF HERMITAGE**  
**SOUTH DARBY ROAD STORMWATER AND**  
**ROADWAY IMPROVEMENTS PROJECT**  
 HERMITAGE, PENNSYLVANIA

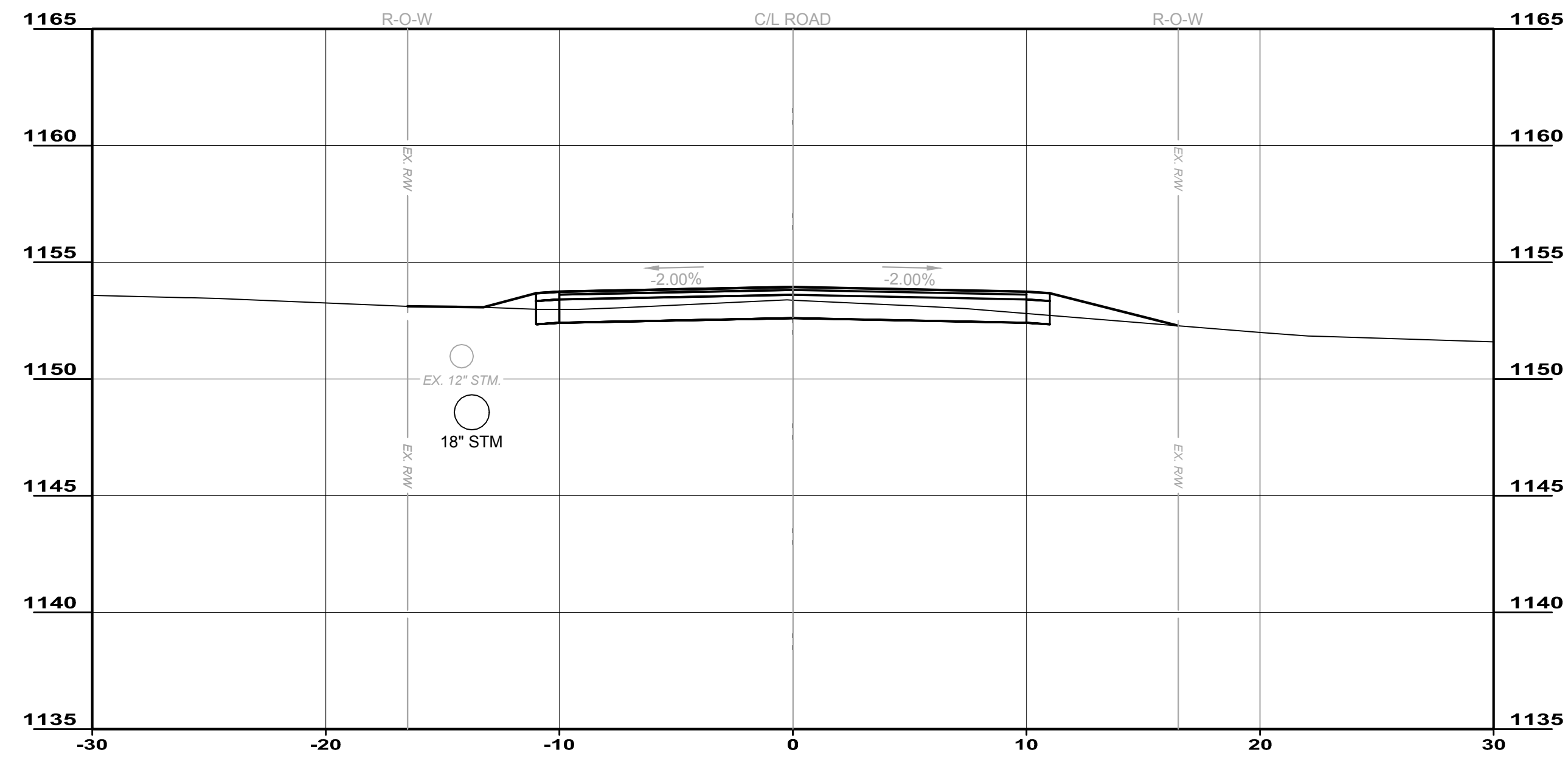
**SECTIONS 3**

PROJECT NO.	181039
DISCIPLINE	CIVIL
SHEET NAME	S-3
SHEET	20
OF	25

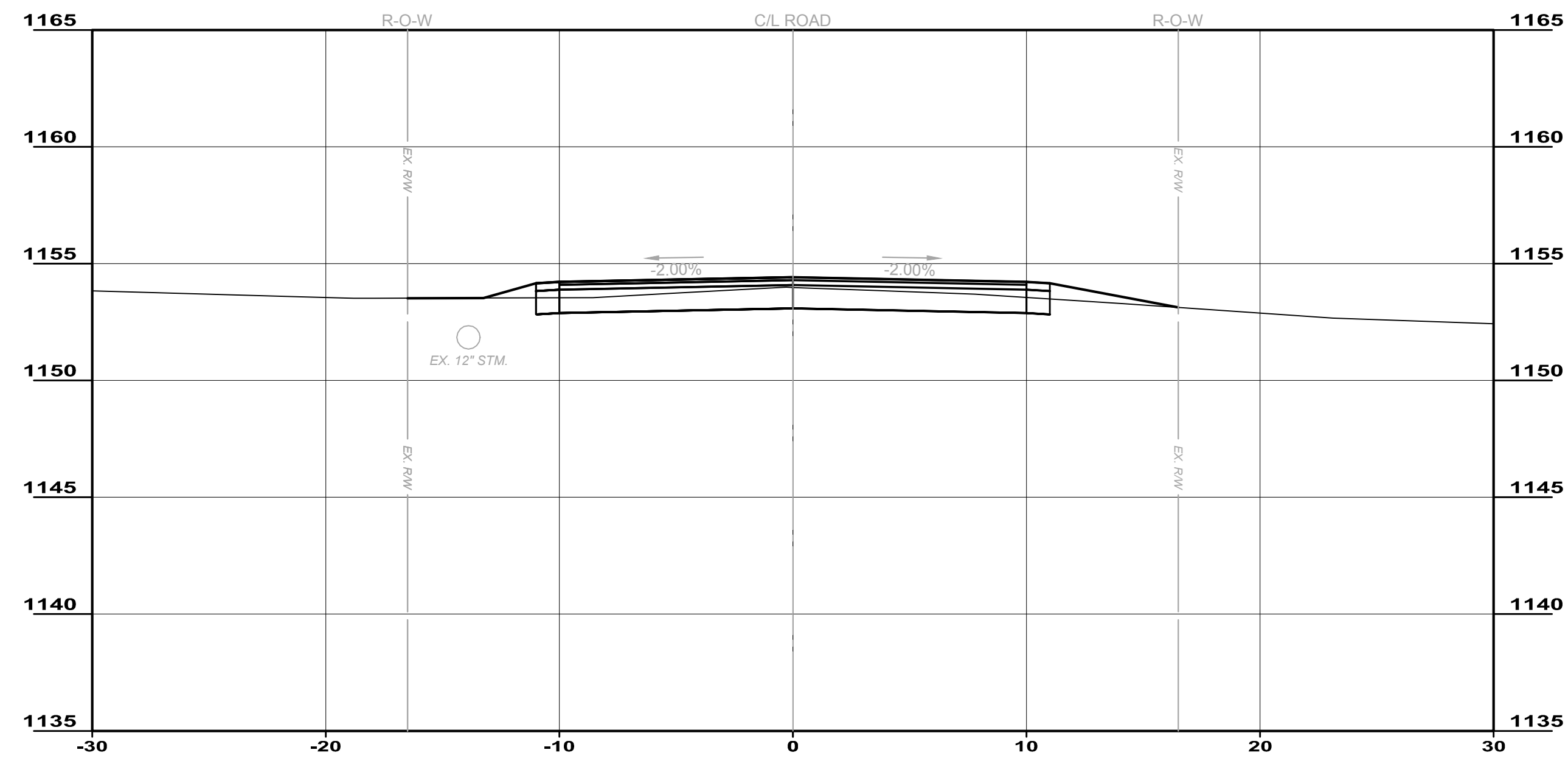
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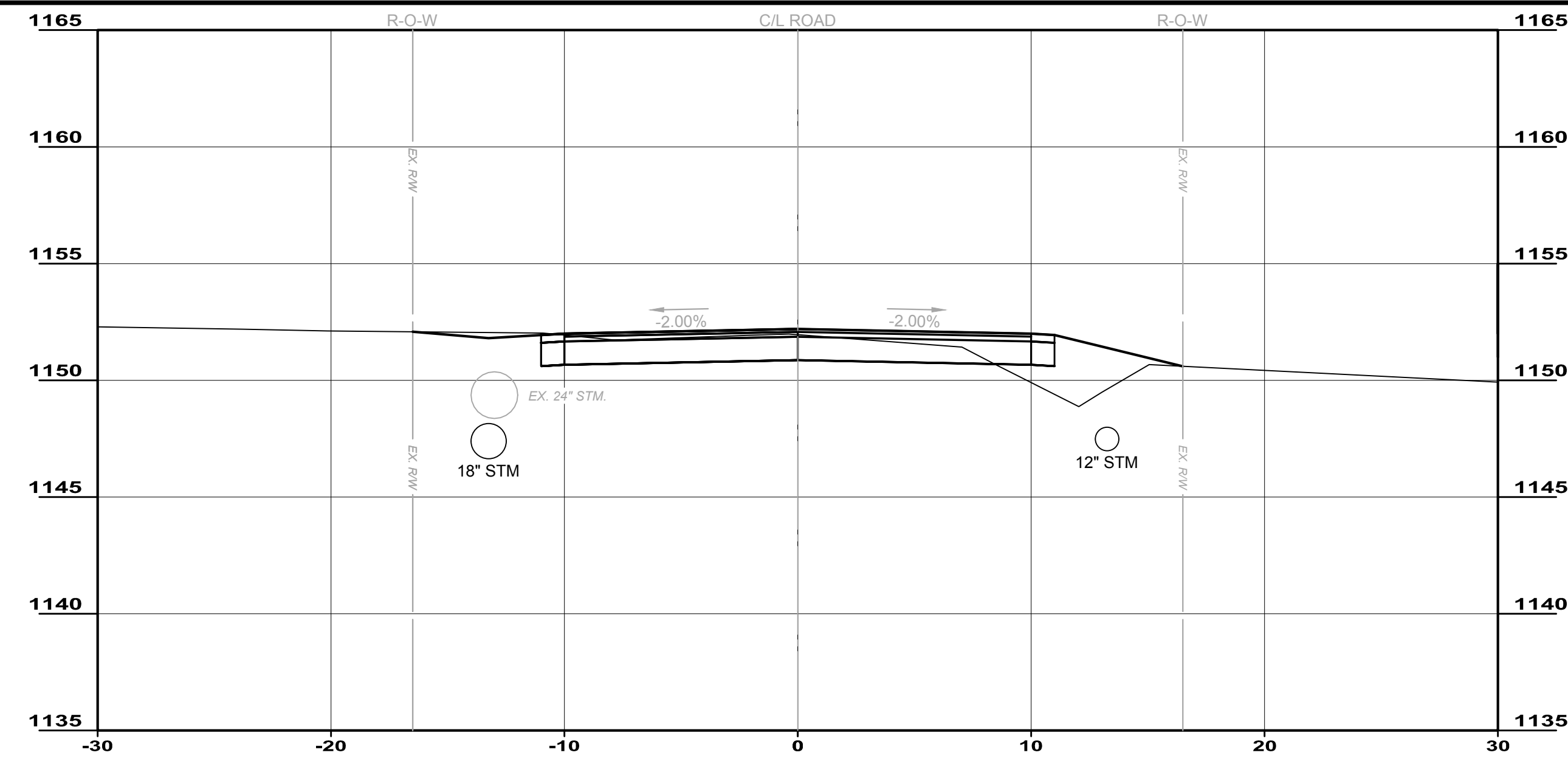
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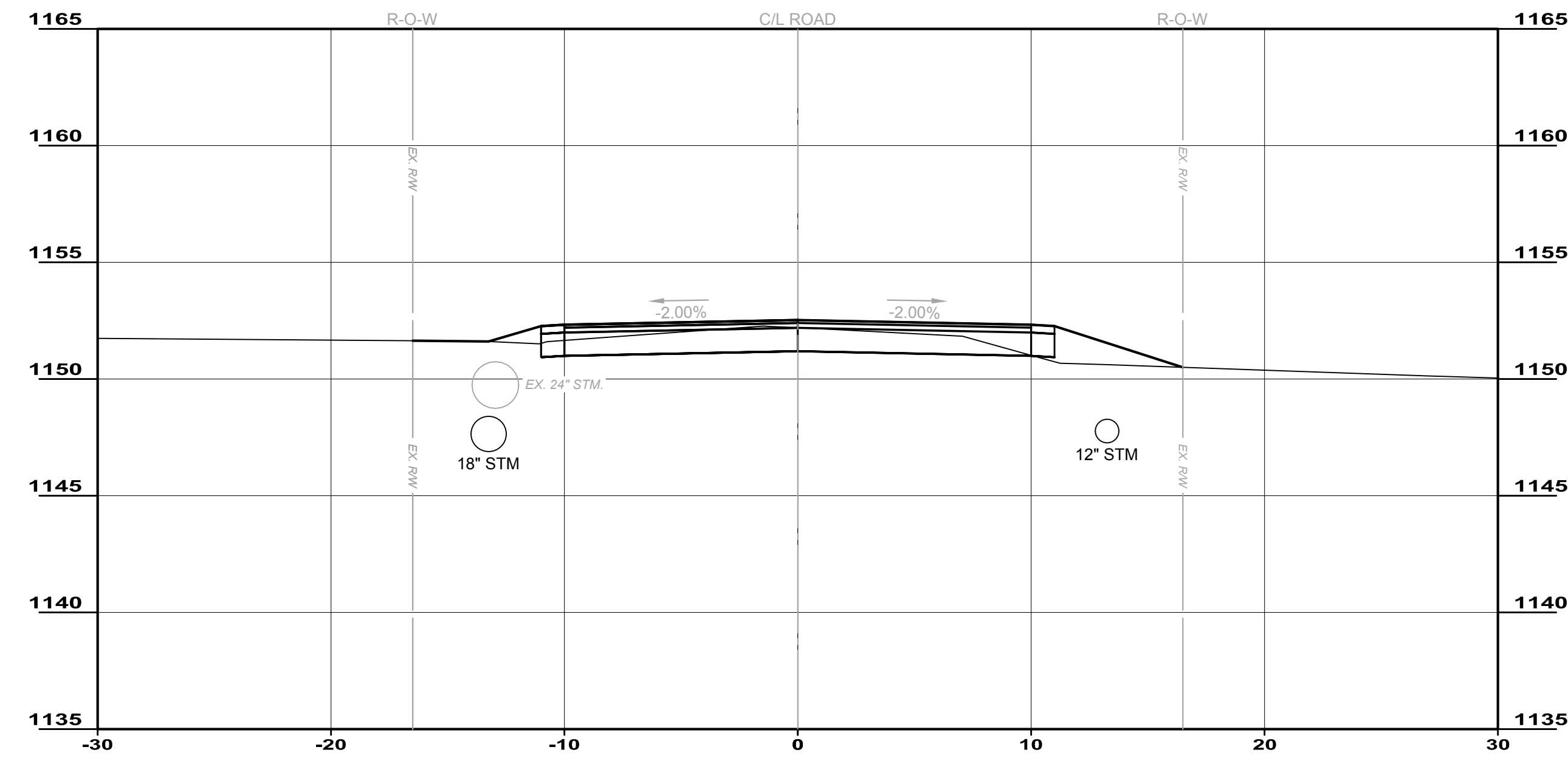
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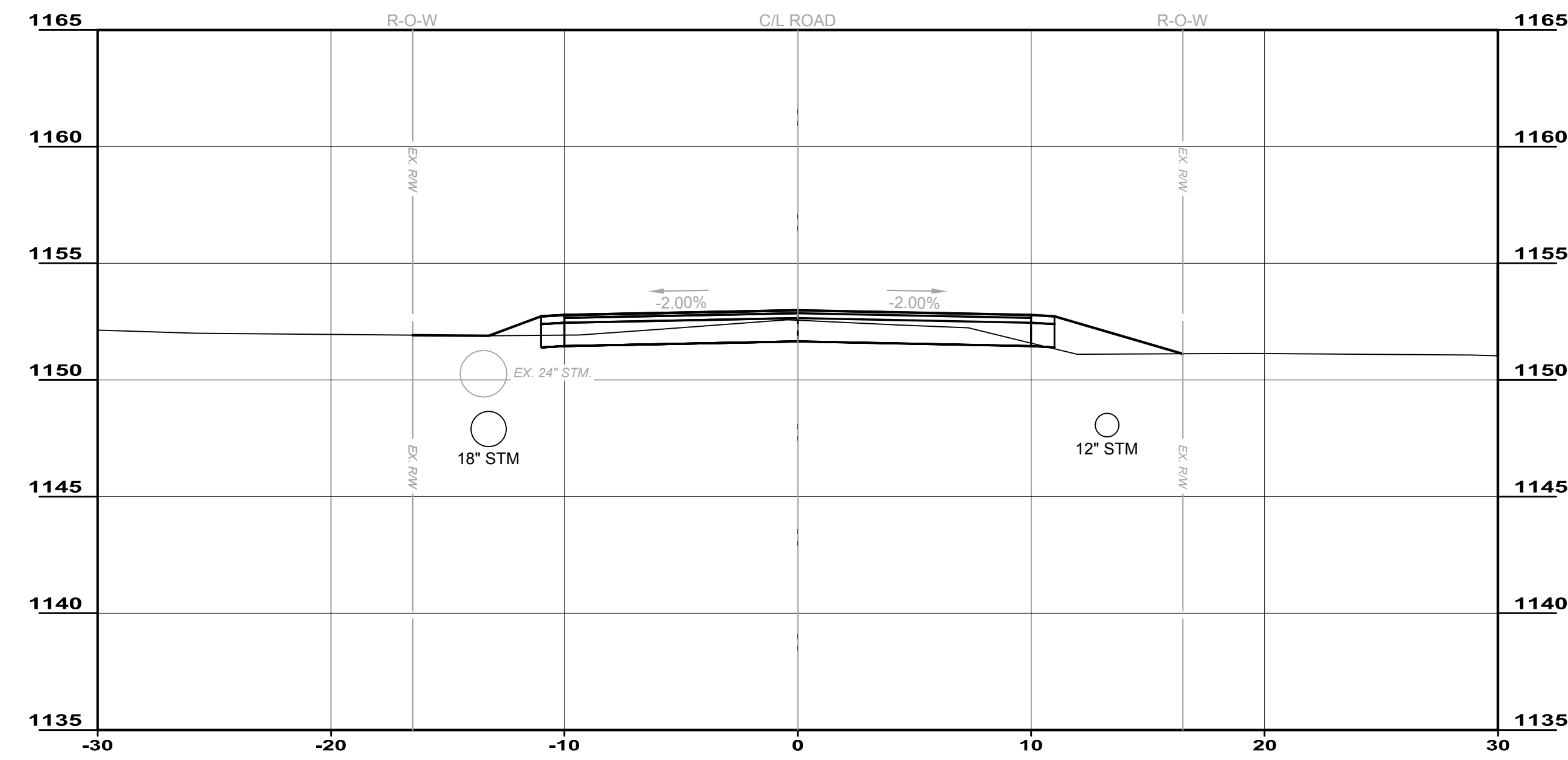
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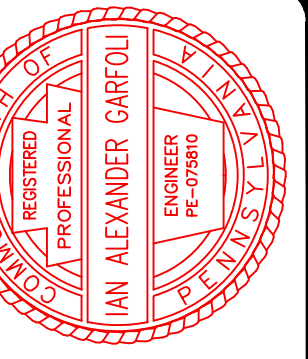
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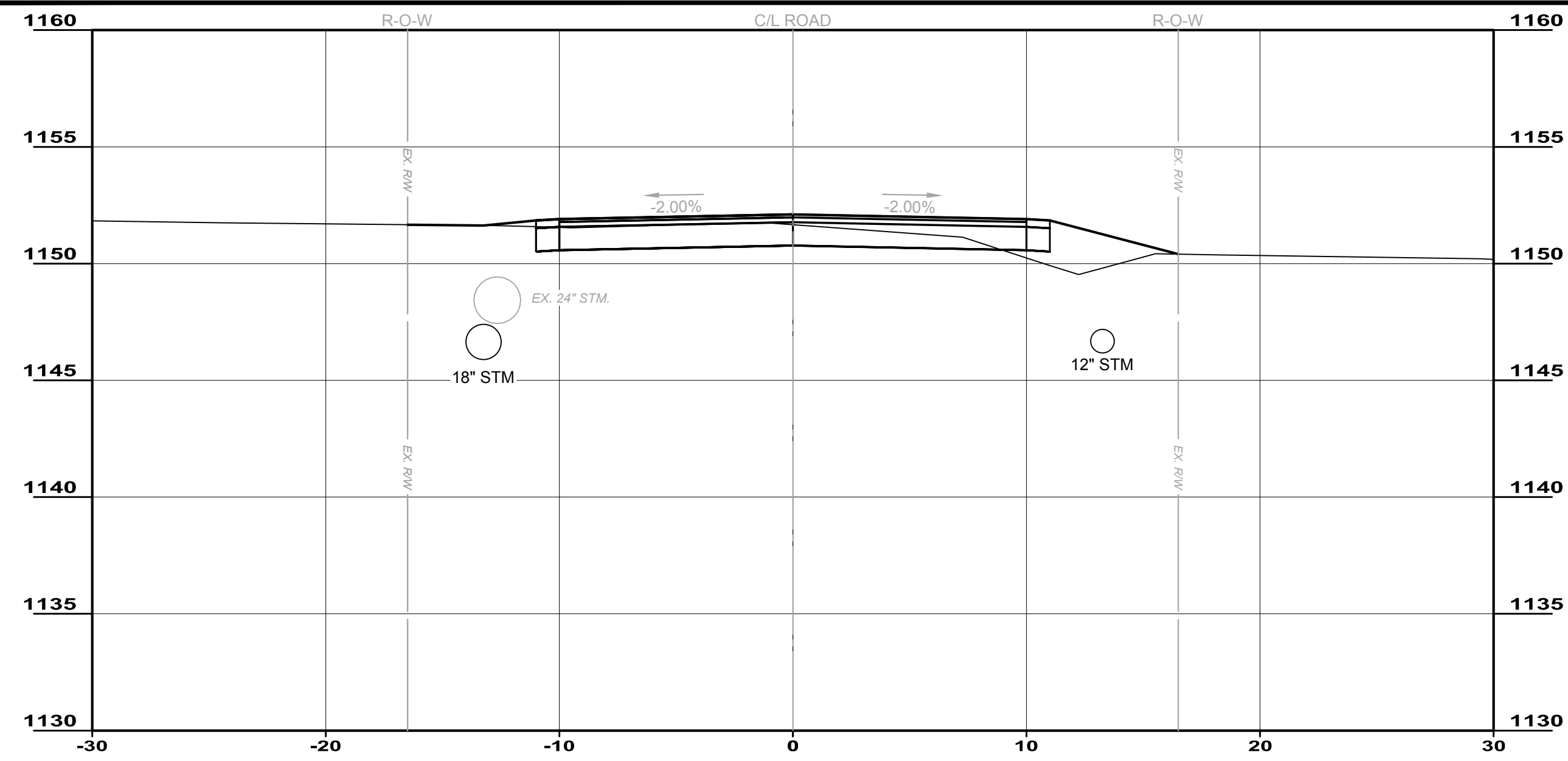


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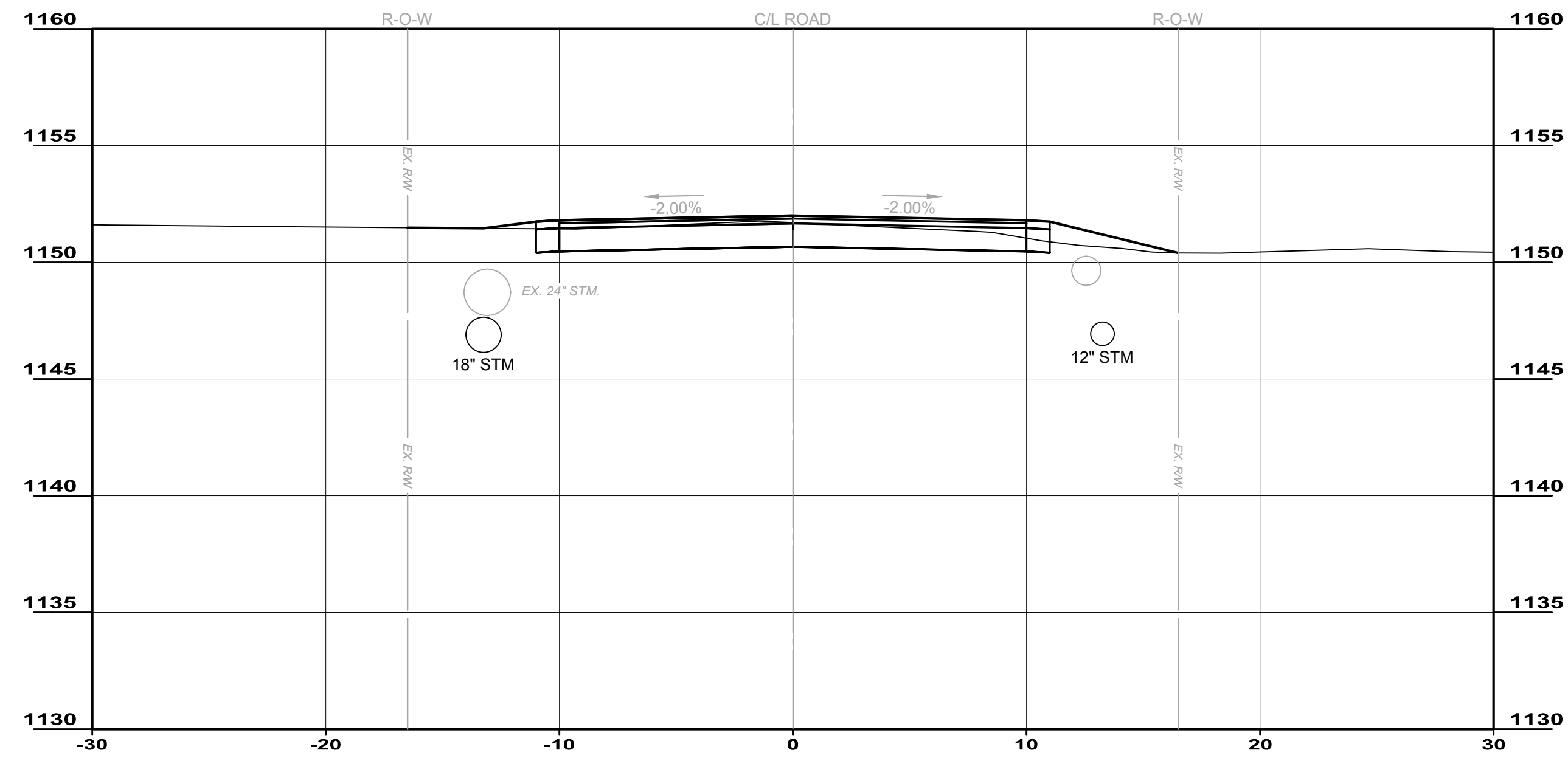
**CITY OF HERMITAGE**  
**SOUTH DARBY ROAD STORMWATER AND**  
**ROADWAY IMPROVEMENTS PROJECT**  
 HERMITAGE, PENNSYLVANIA

PROJECT NO.	181039
DISCIPLINE	CIVIL
SHEET NAME	S-4
SHEET	21
OF	25

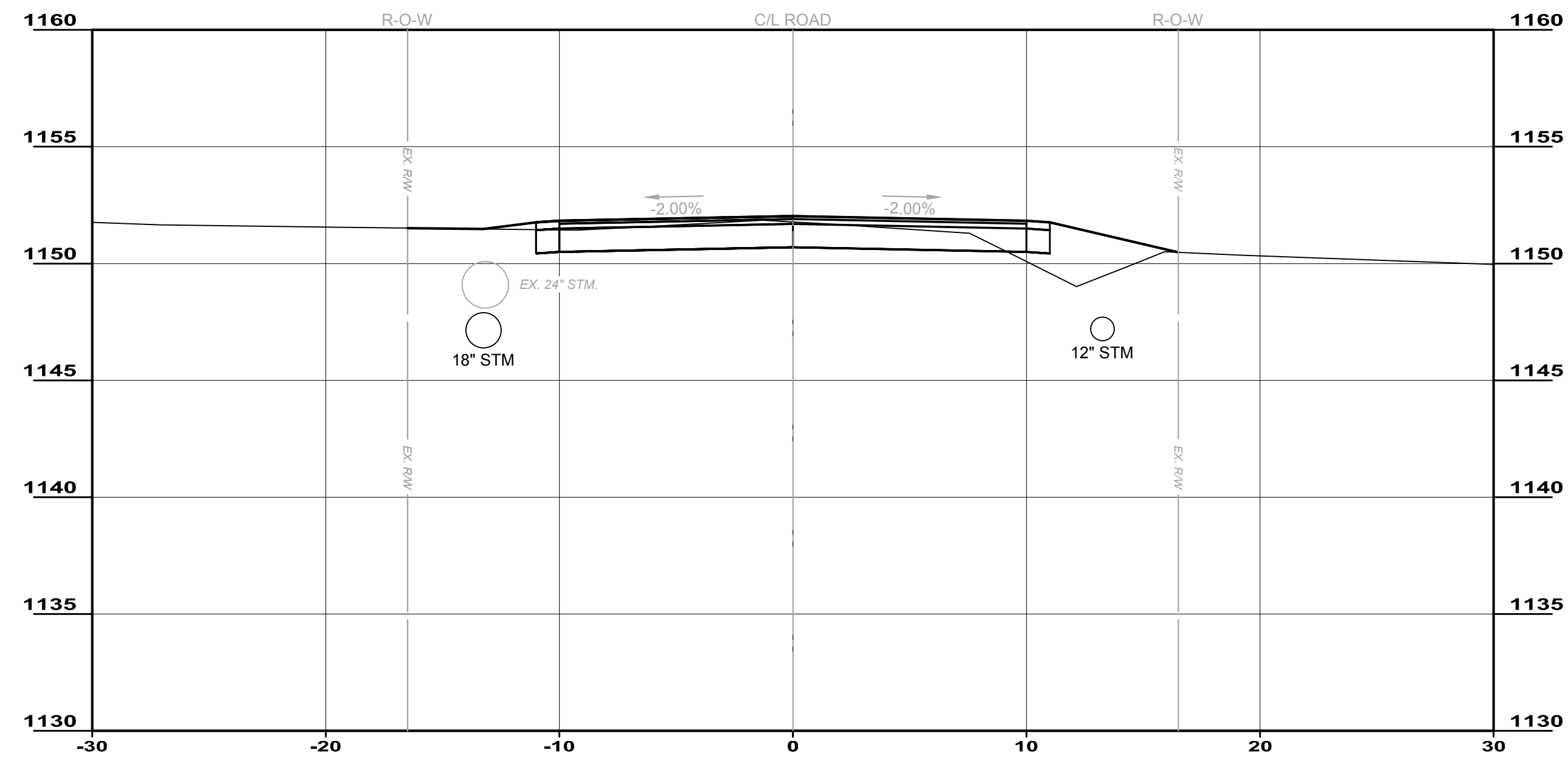
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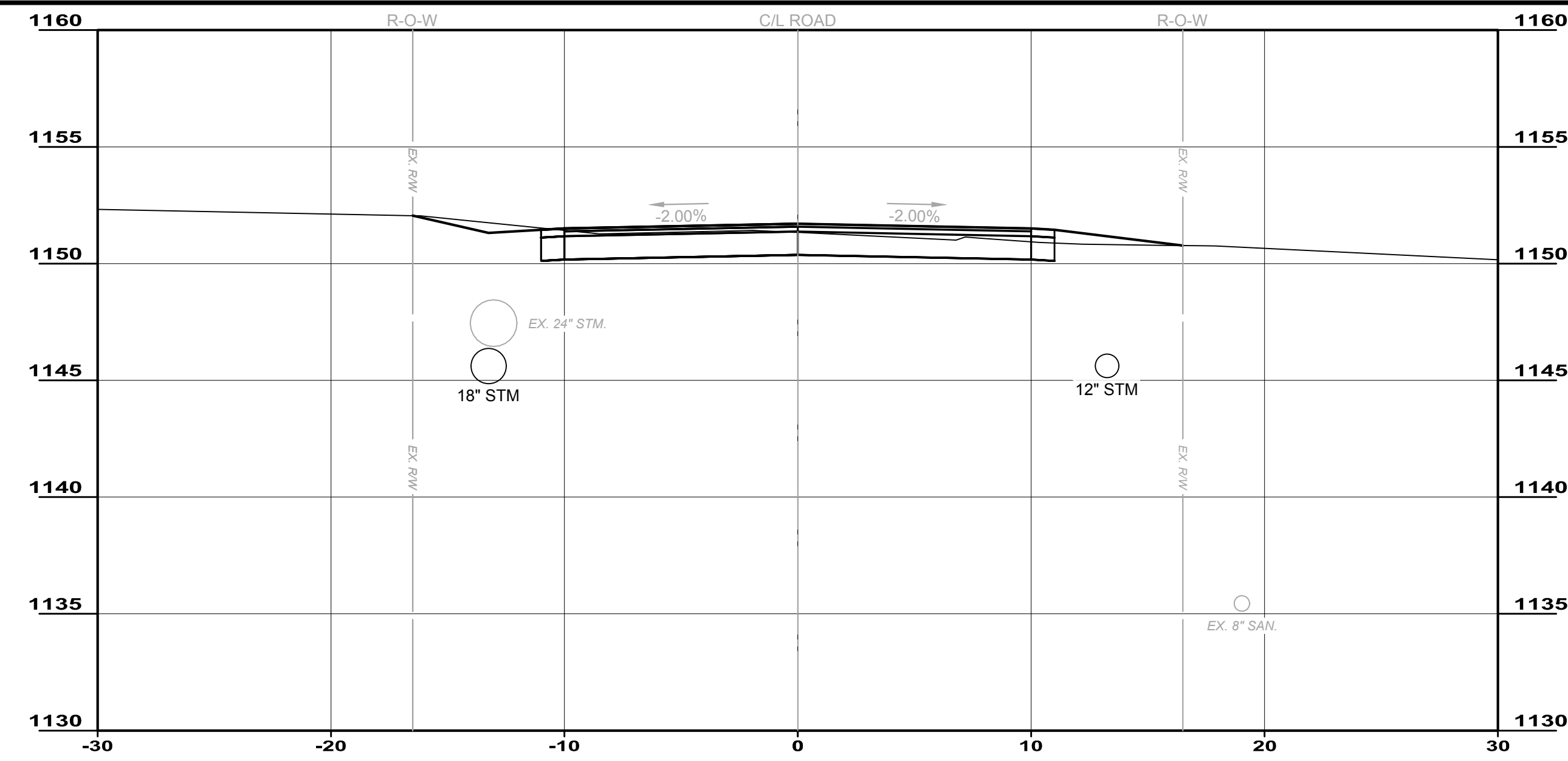
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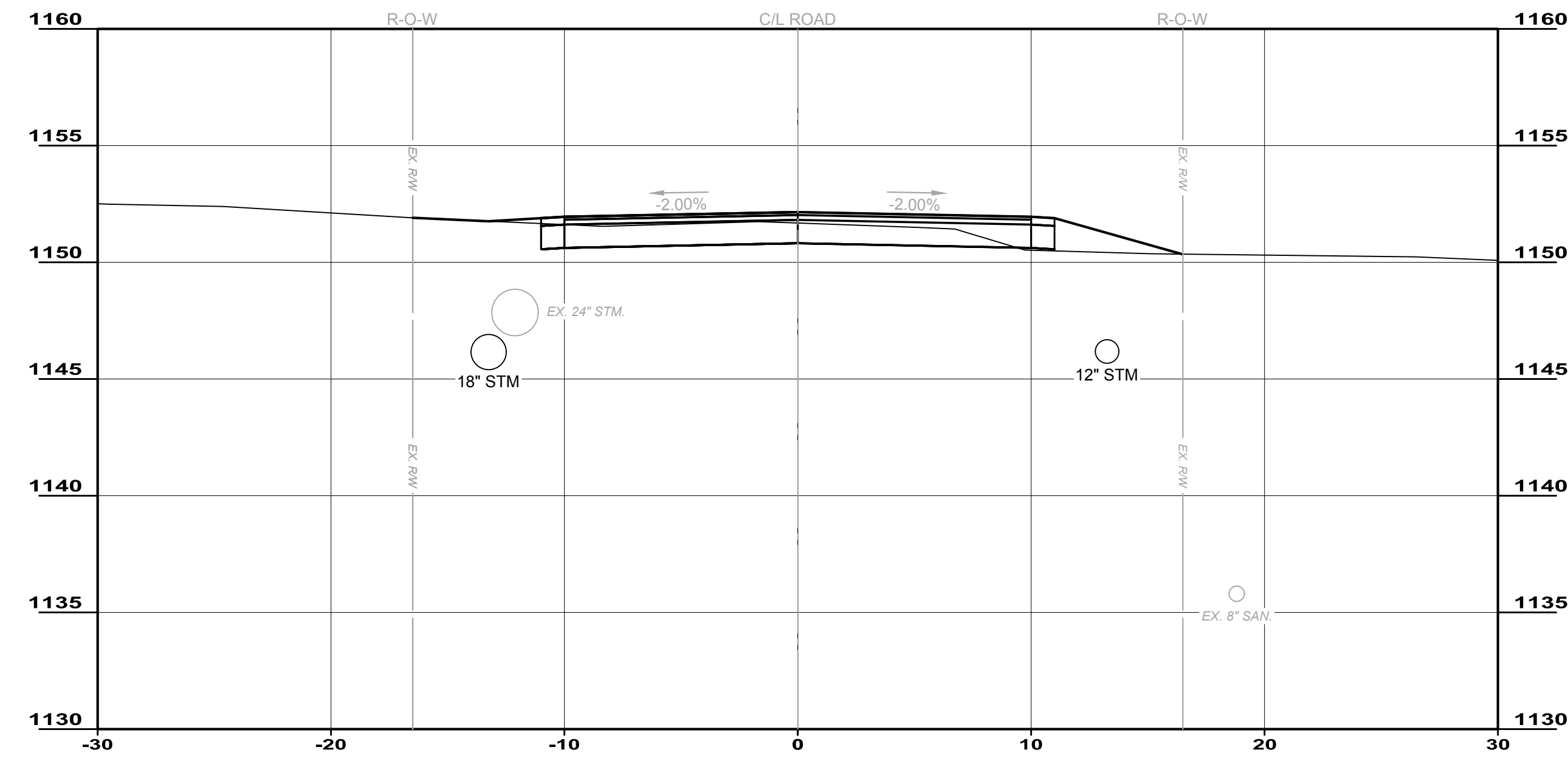
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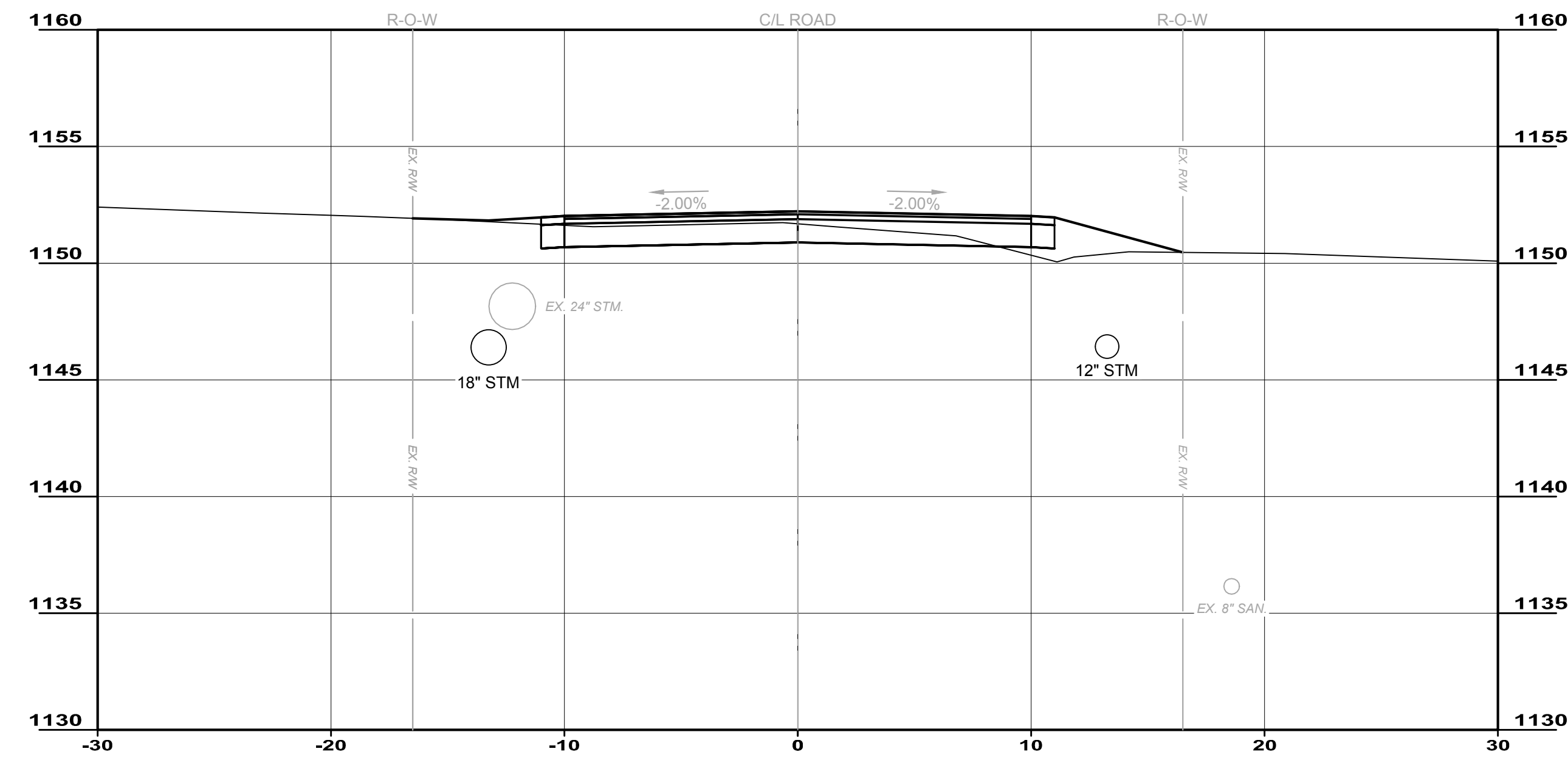
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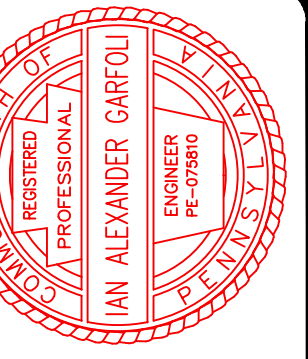
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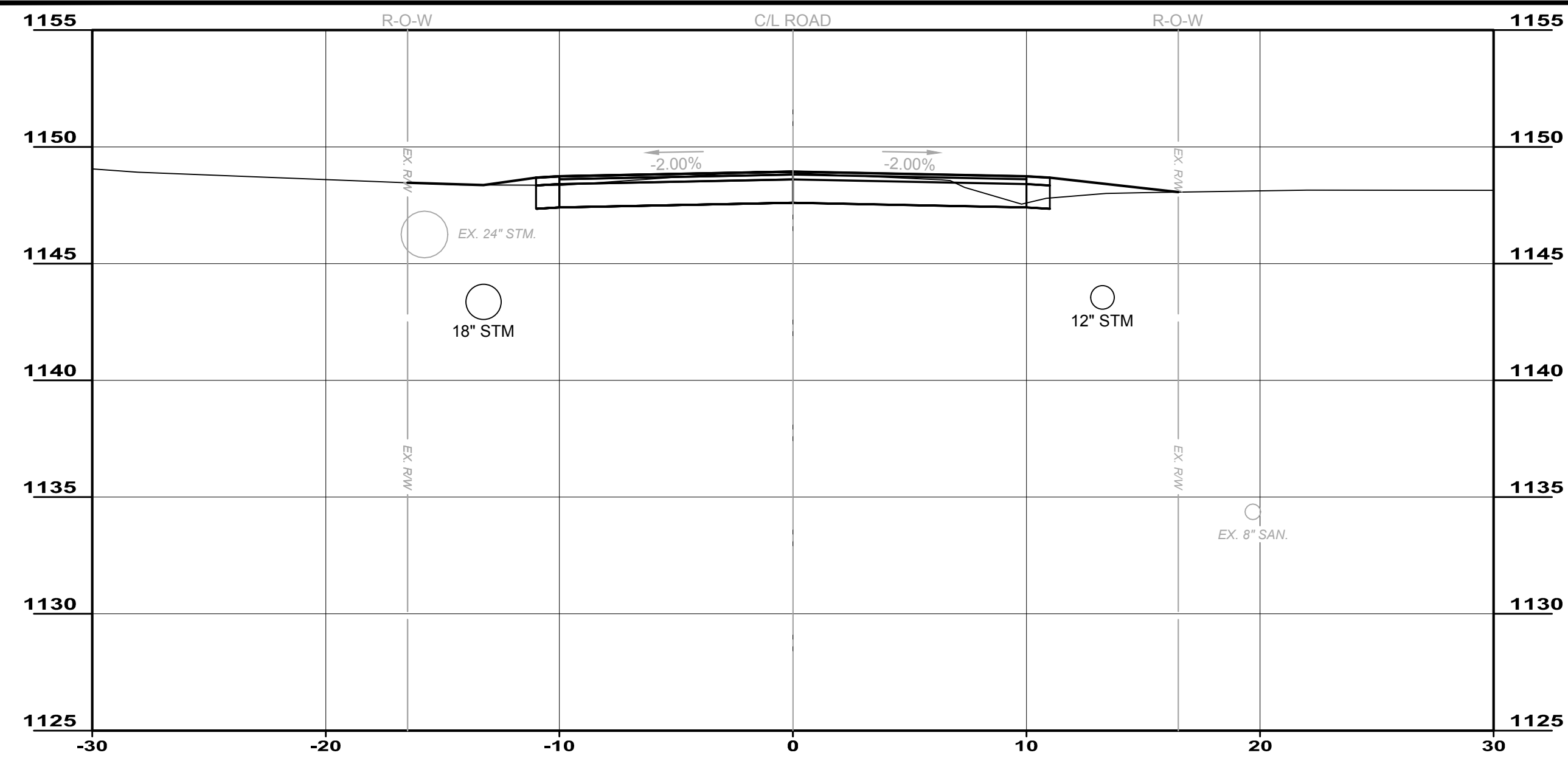


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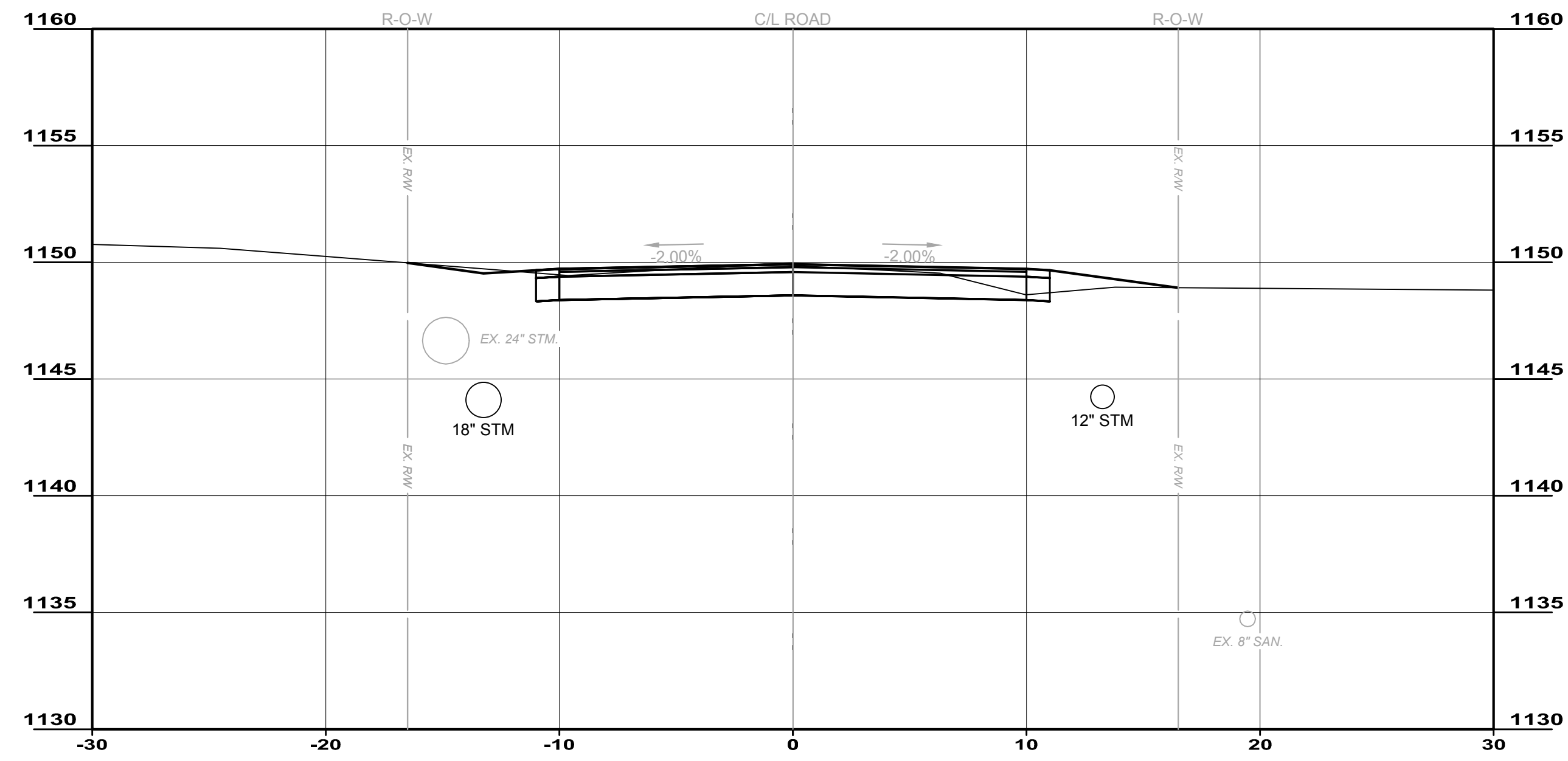
**CITY OF HERMITAGE**  
**SOUTH DARBY ROAD STORMWATER AND**  
**ROADWAY IMPROVEMENTS PROJECT**  
 HERMITAGE, PENNSYLVANIA

**SECTIONS 5**

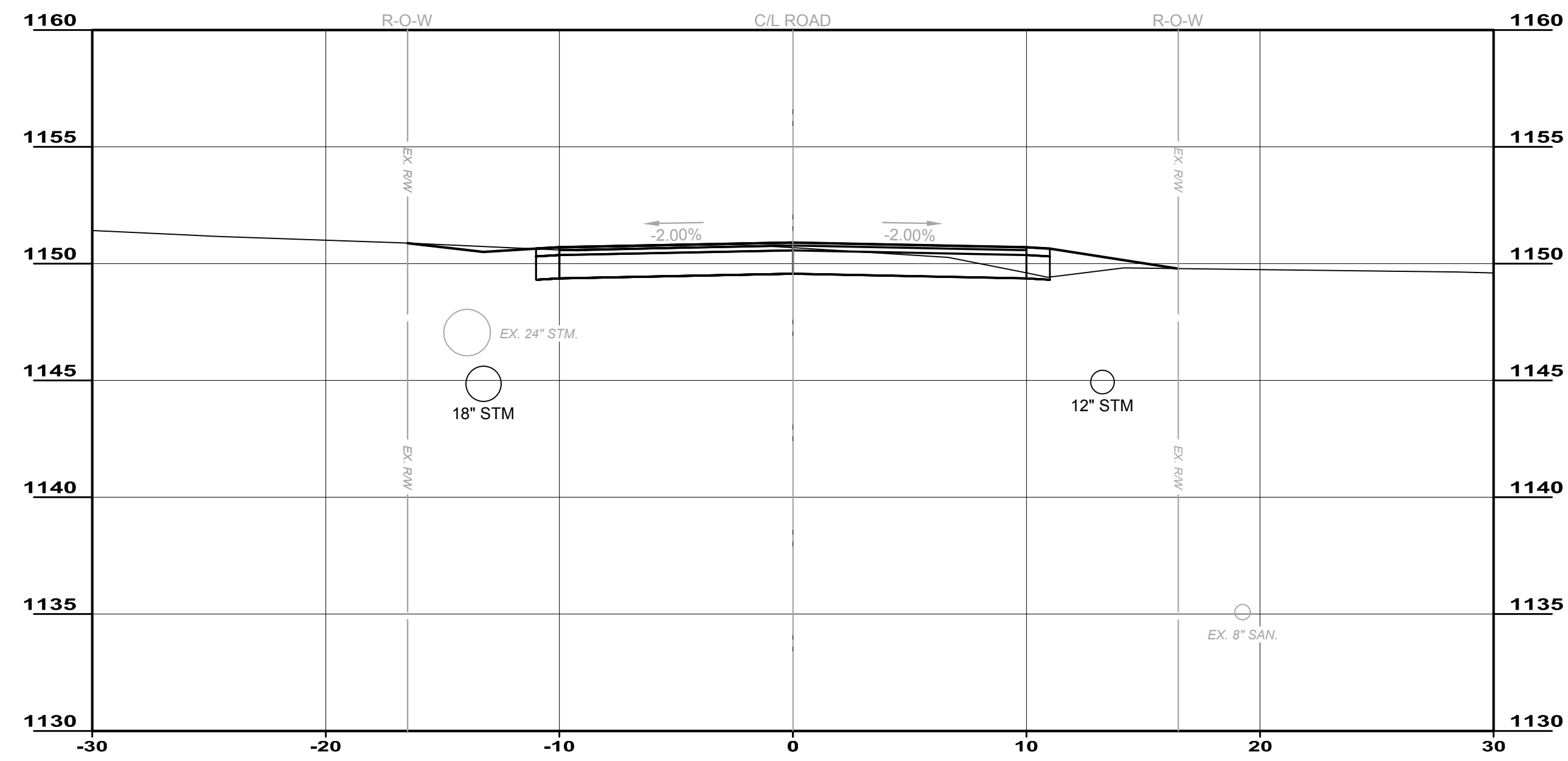
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DISCIPLINE	CIVIL
SHEET NAME	S-5
SHEET	22
OF	25



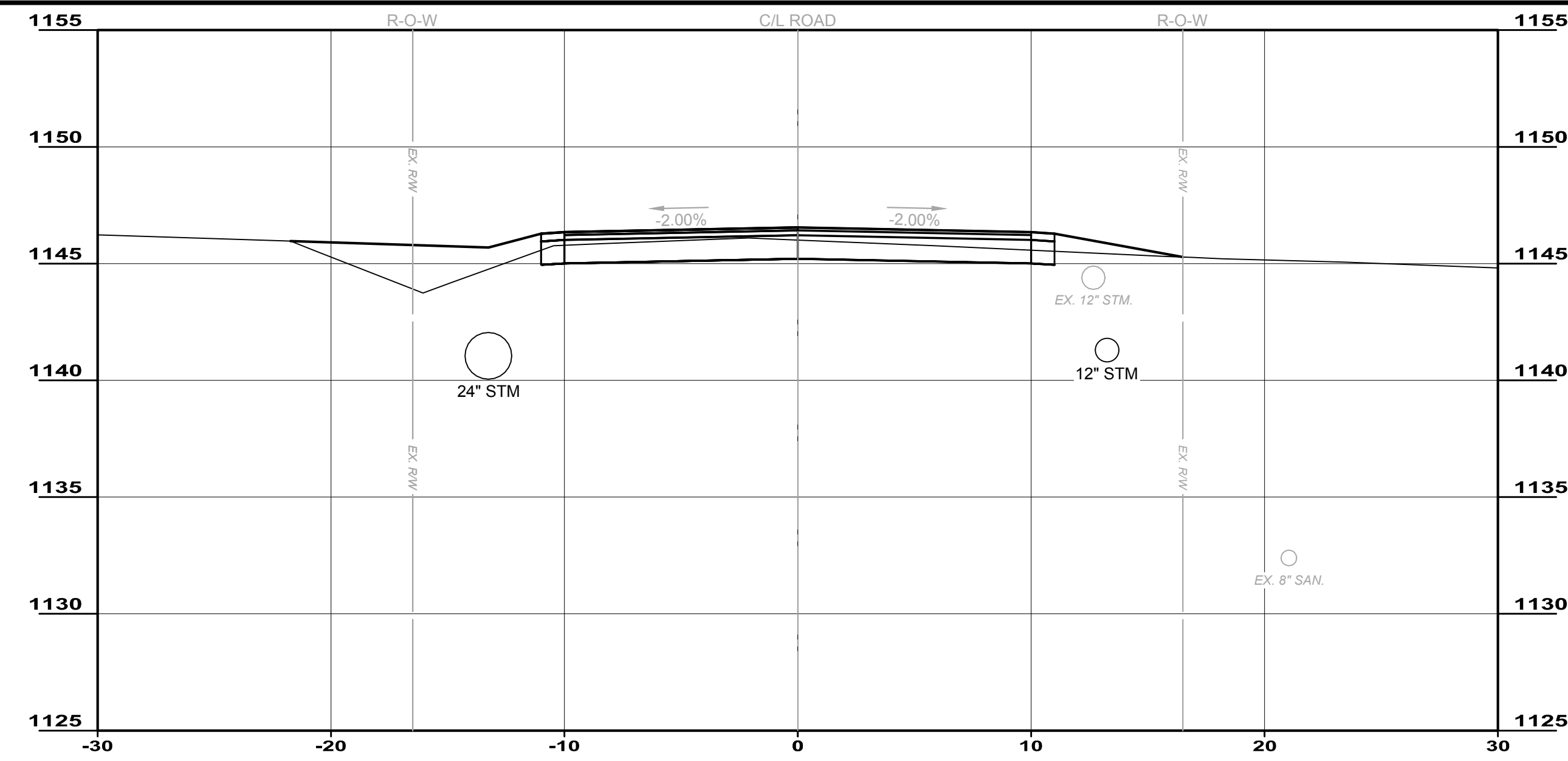
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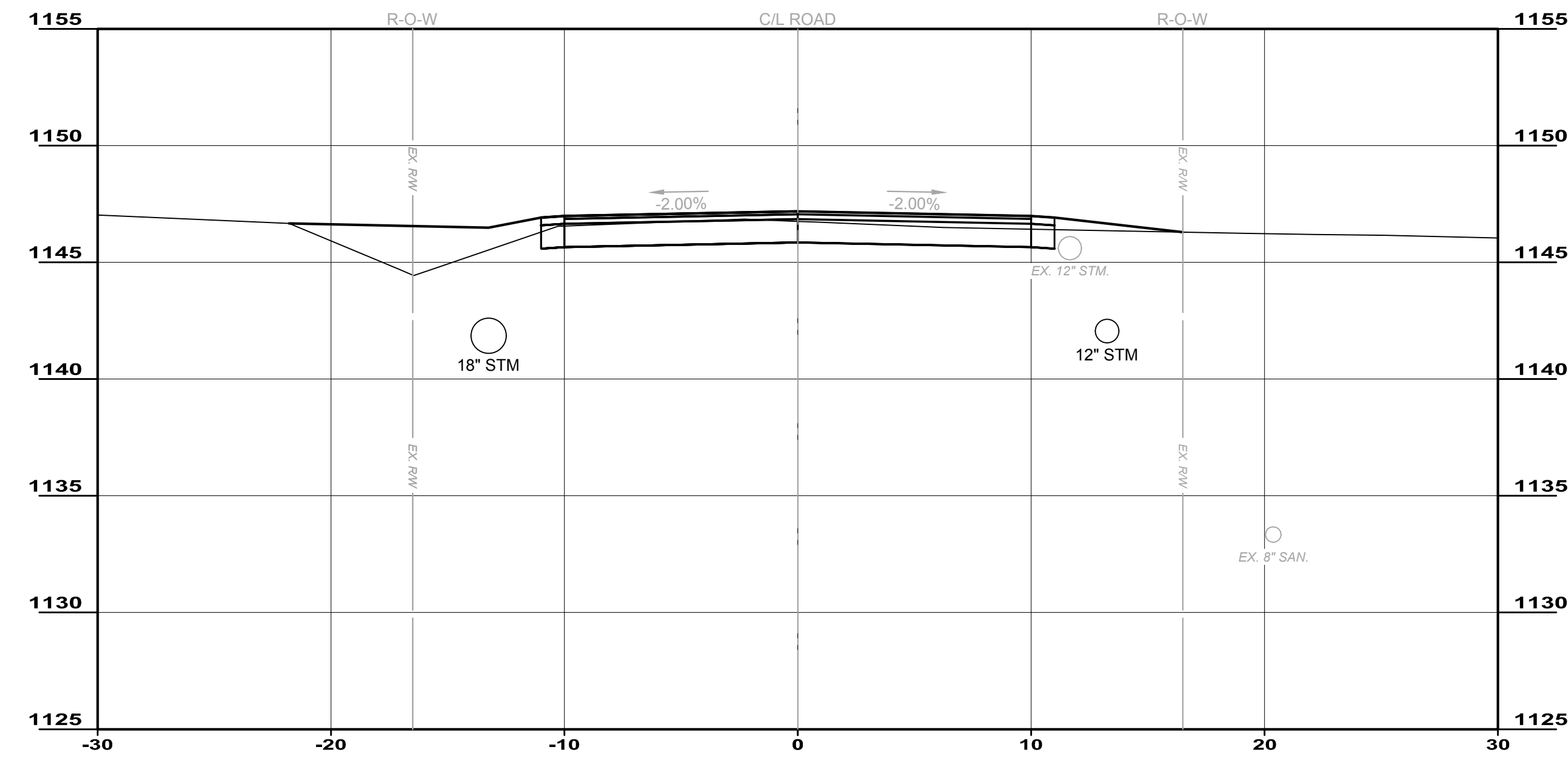
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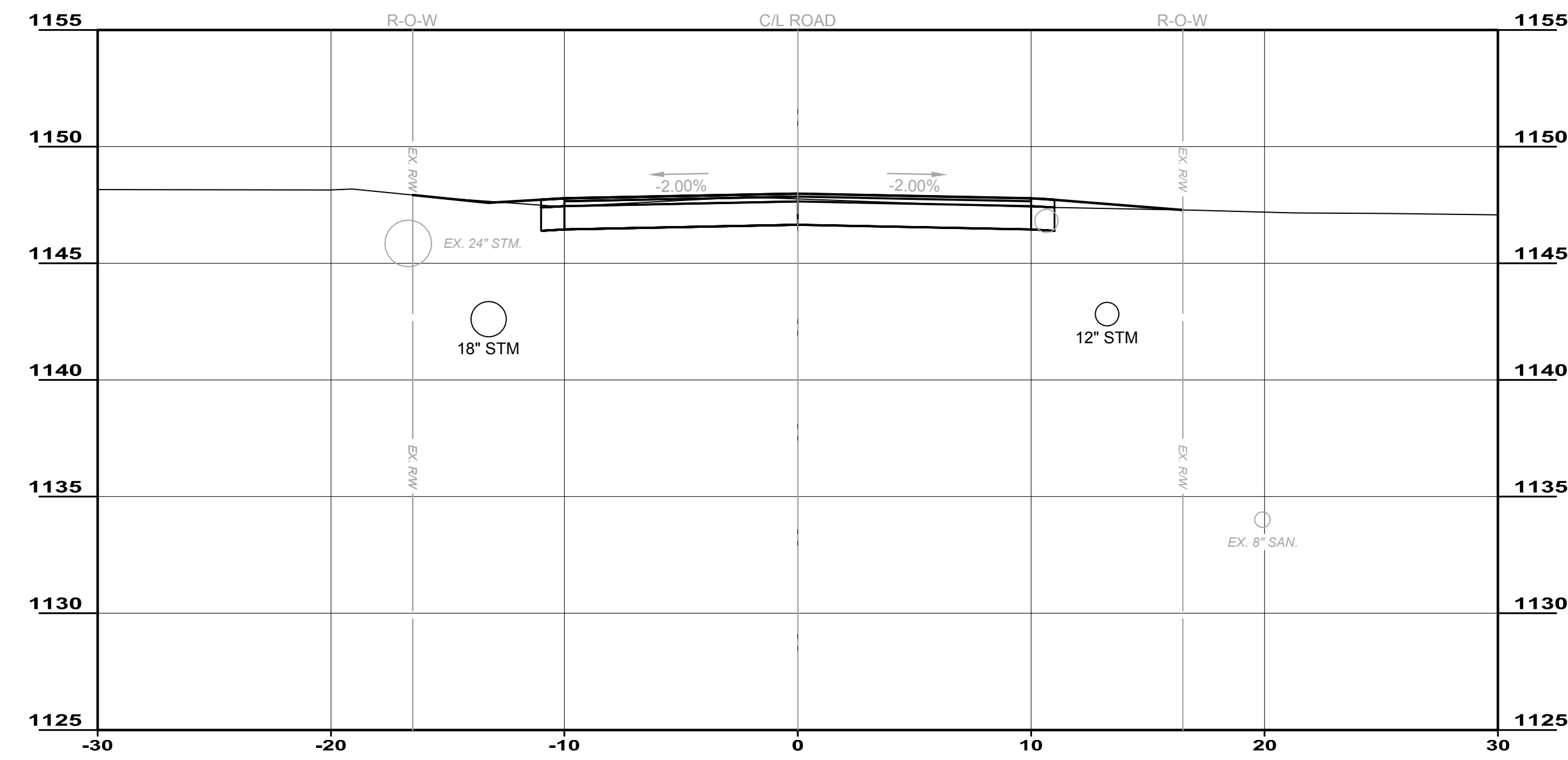
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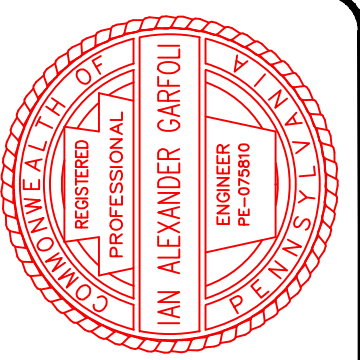
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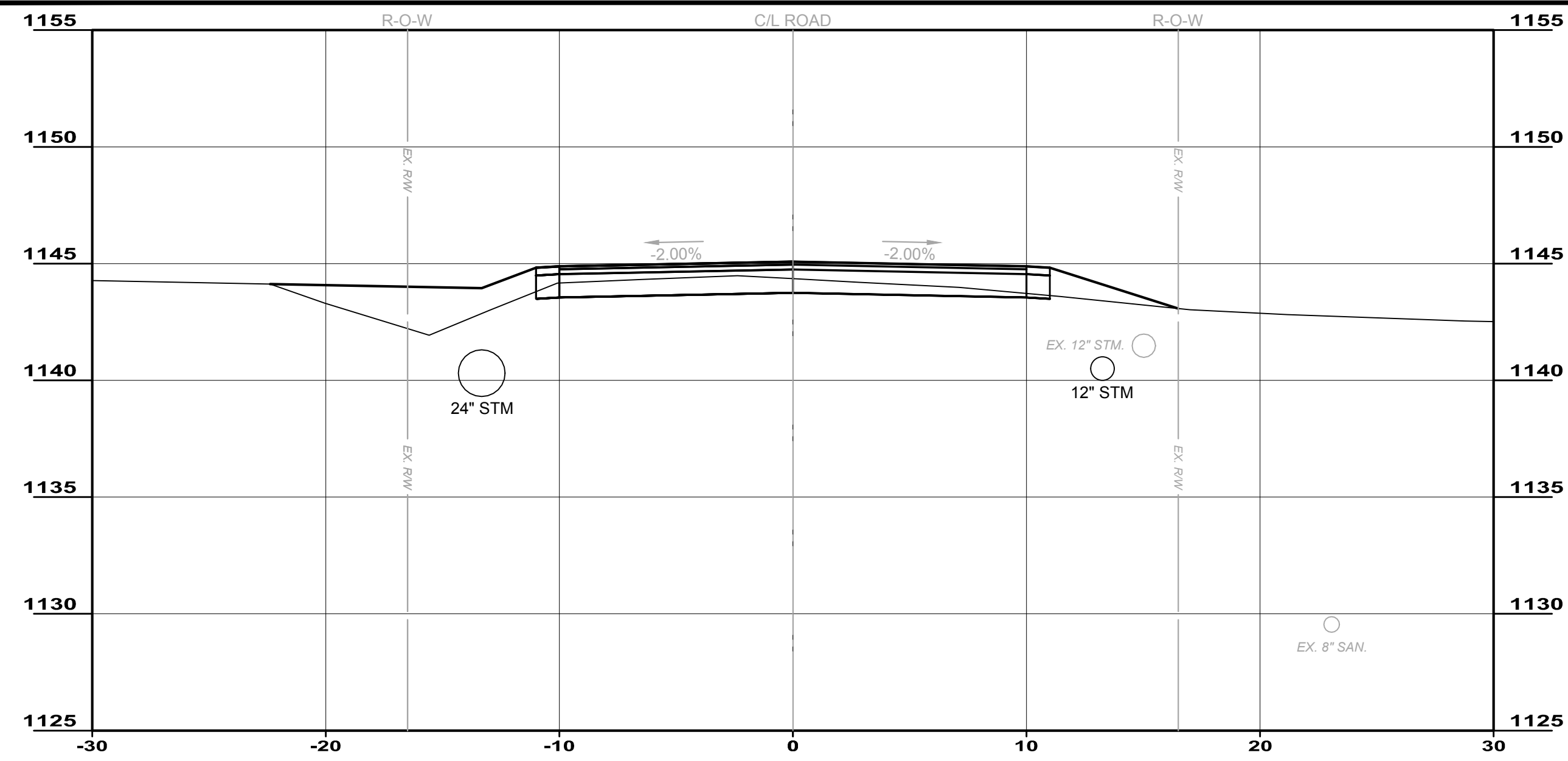


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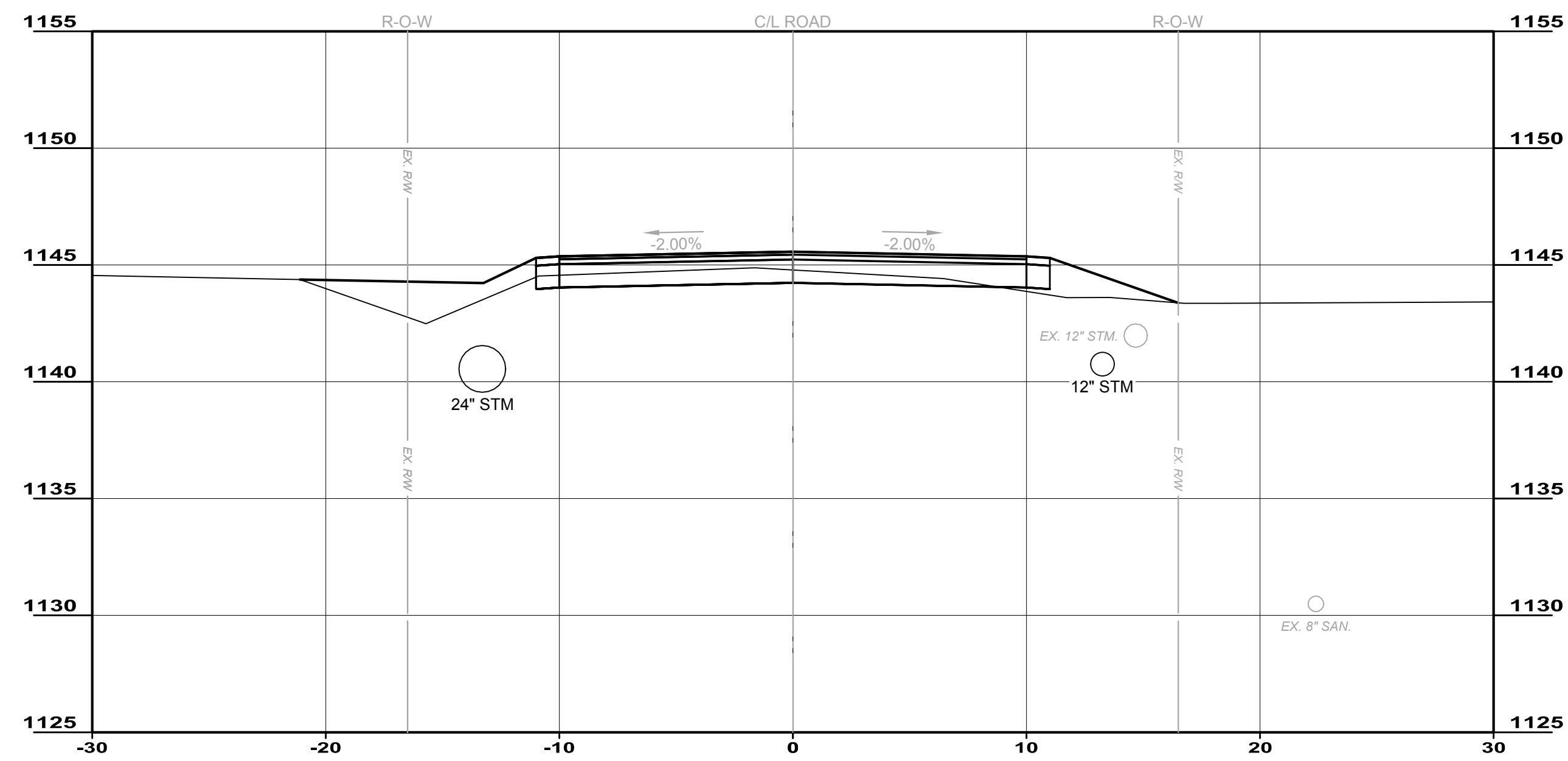
**CITY OF HERMITAGE**  
**SOUTH DARBY ROAD STORMWATER AND**  
**ROADWAY IMPROVEMENTS PROJECT**  
 HERMITAGE, PENNSYLVANIA

**SECTIONS 6**

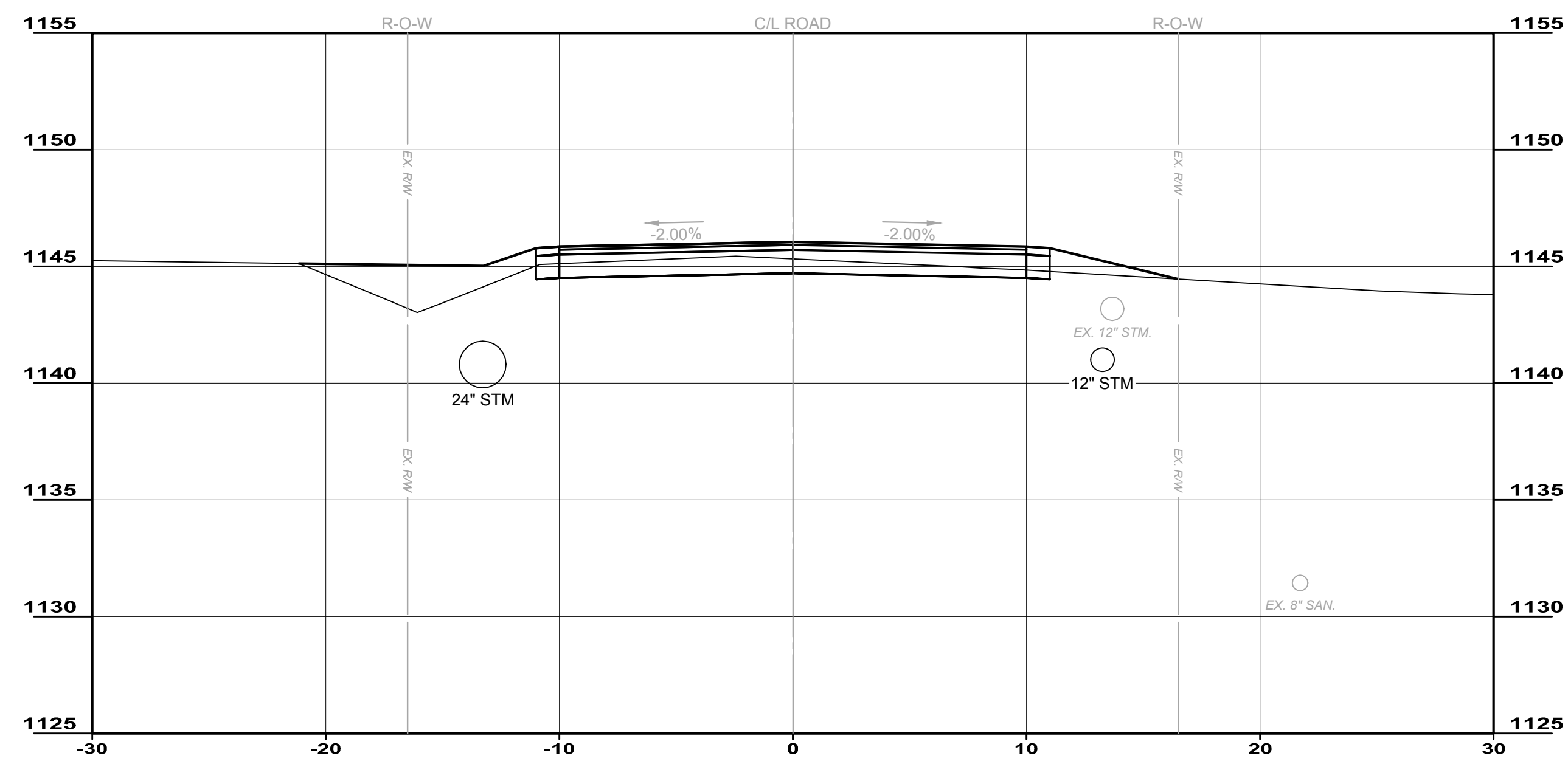
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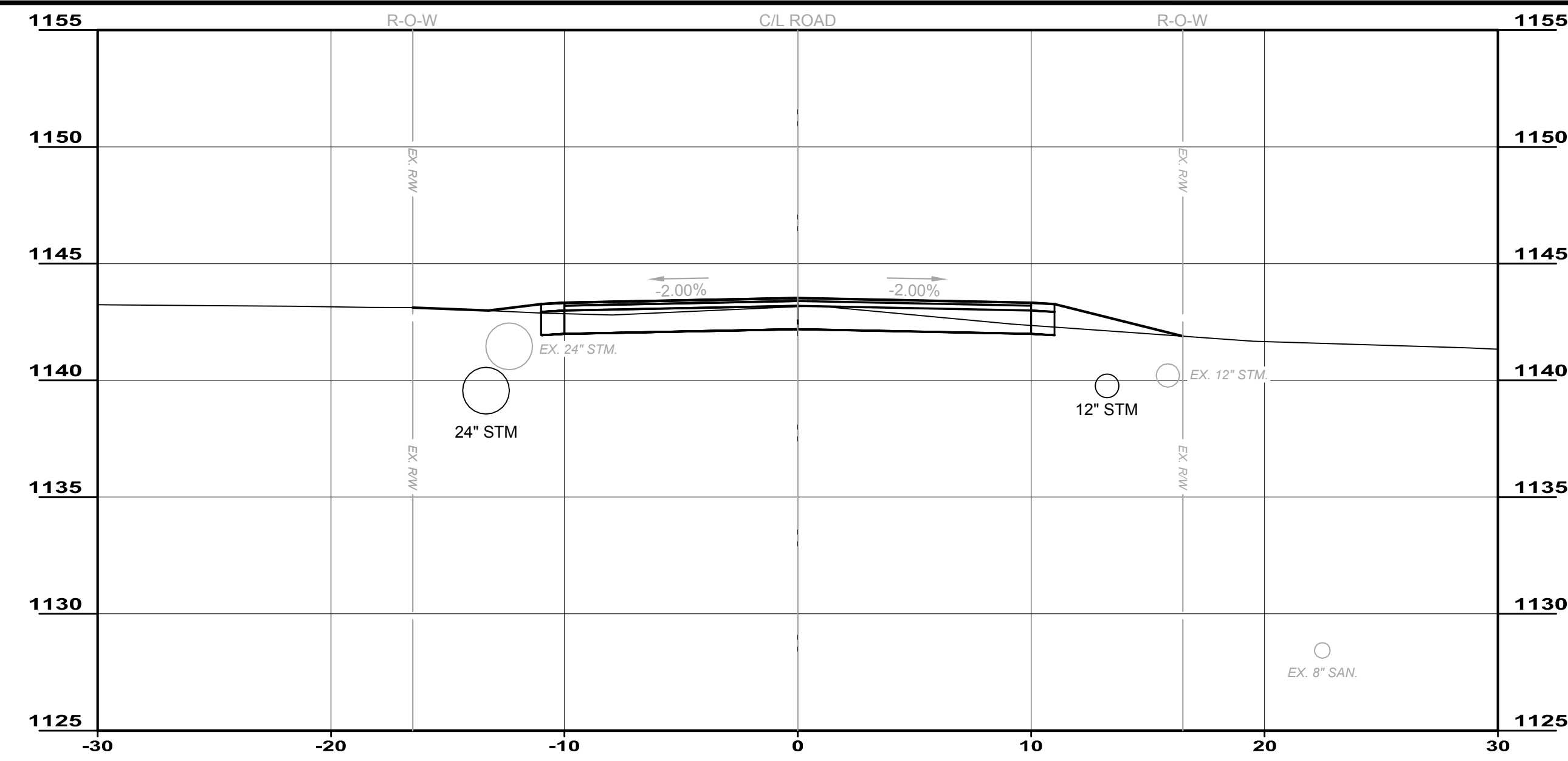
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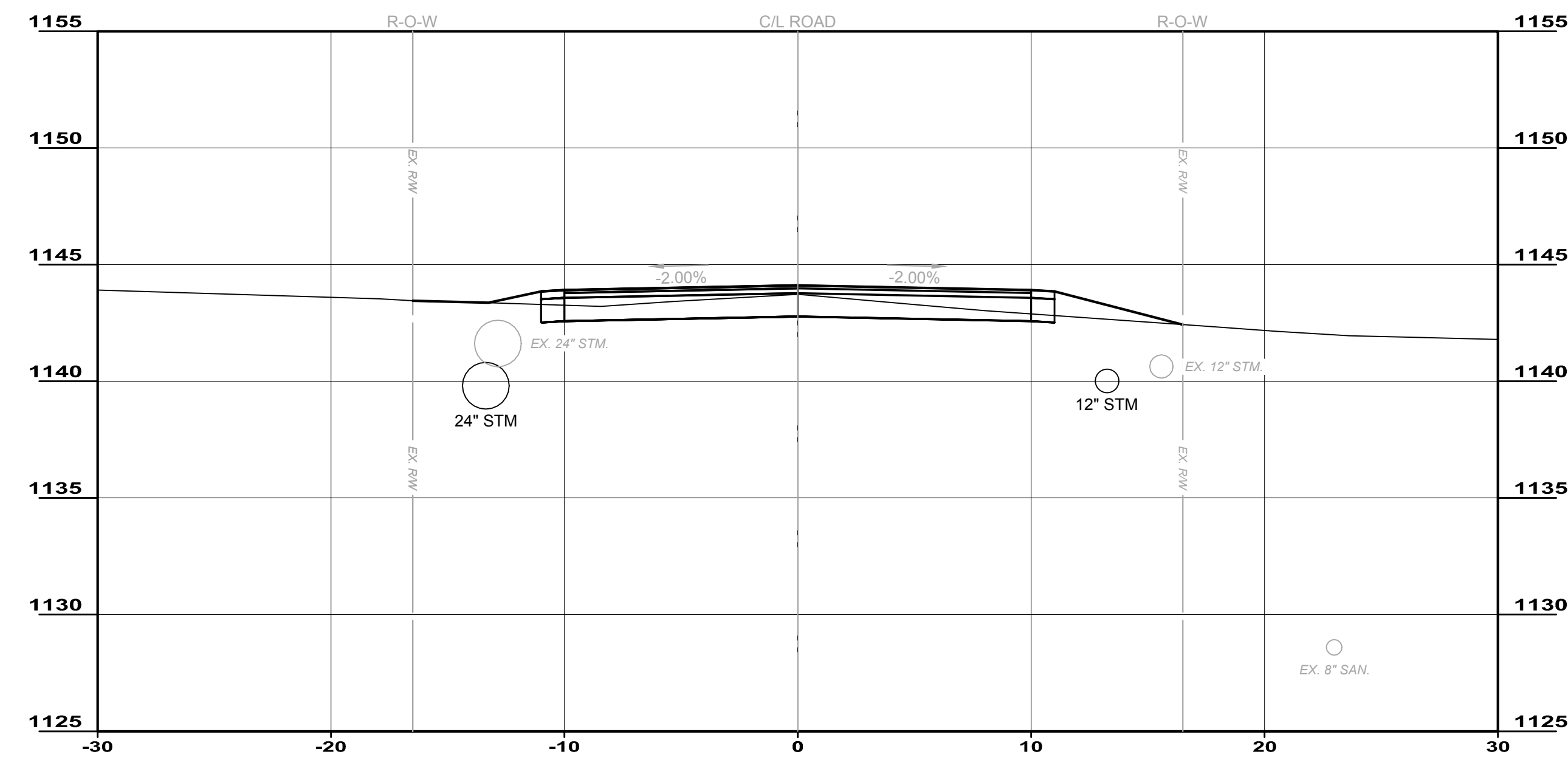
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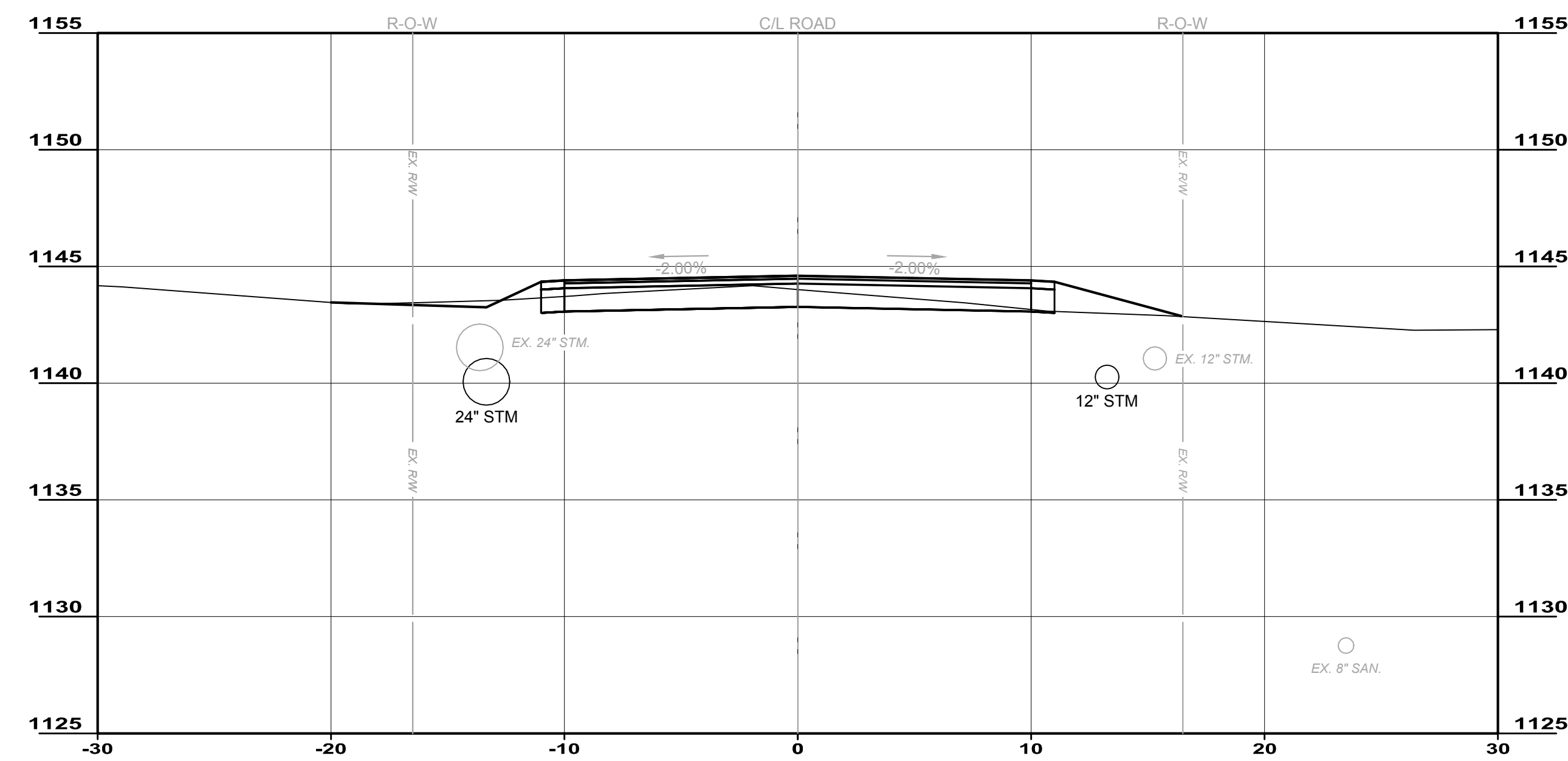
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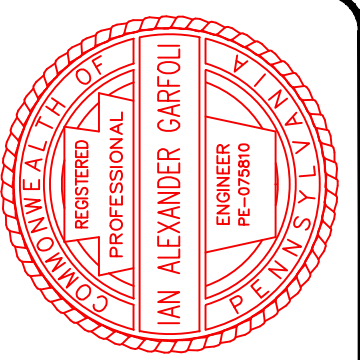
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20+00.00



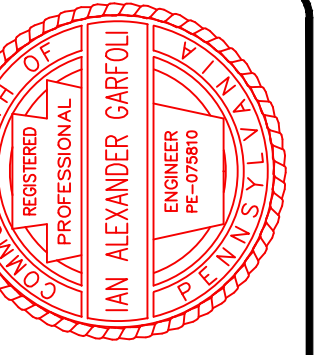
DATE	REVISION	NO	DESIGN	ISSUED FOR:	ISSUE DATE:	SCALE:	DESIGNED BY:	DRAWN BY:	CHECKED BY:
			4/9/2019	AS SHOWN					

**CITY OF HERMITAGE**  
**SOUTH DARBY ROAD STORMWATER AND**  
**ROADWAY IMPROVEMENTS PROJECT**  
 HERMITAGE, PENNSYLVANIA

PROJECT NO.	181039
DISCIPLINE	CIVIL
SHEET NAME	S-7
SHEET	24
OF	25

**SECTIONS 7**



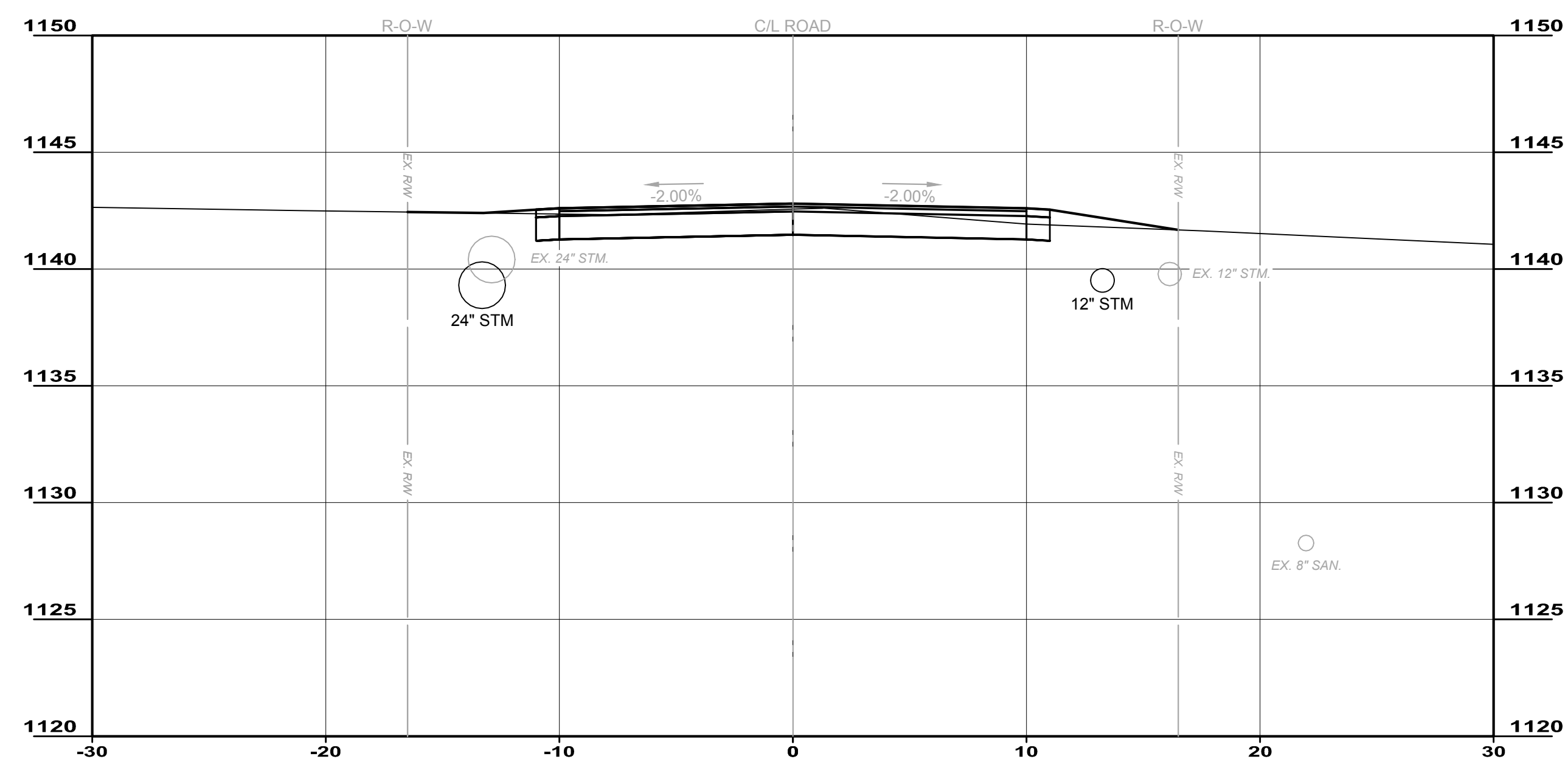
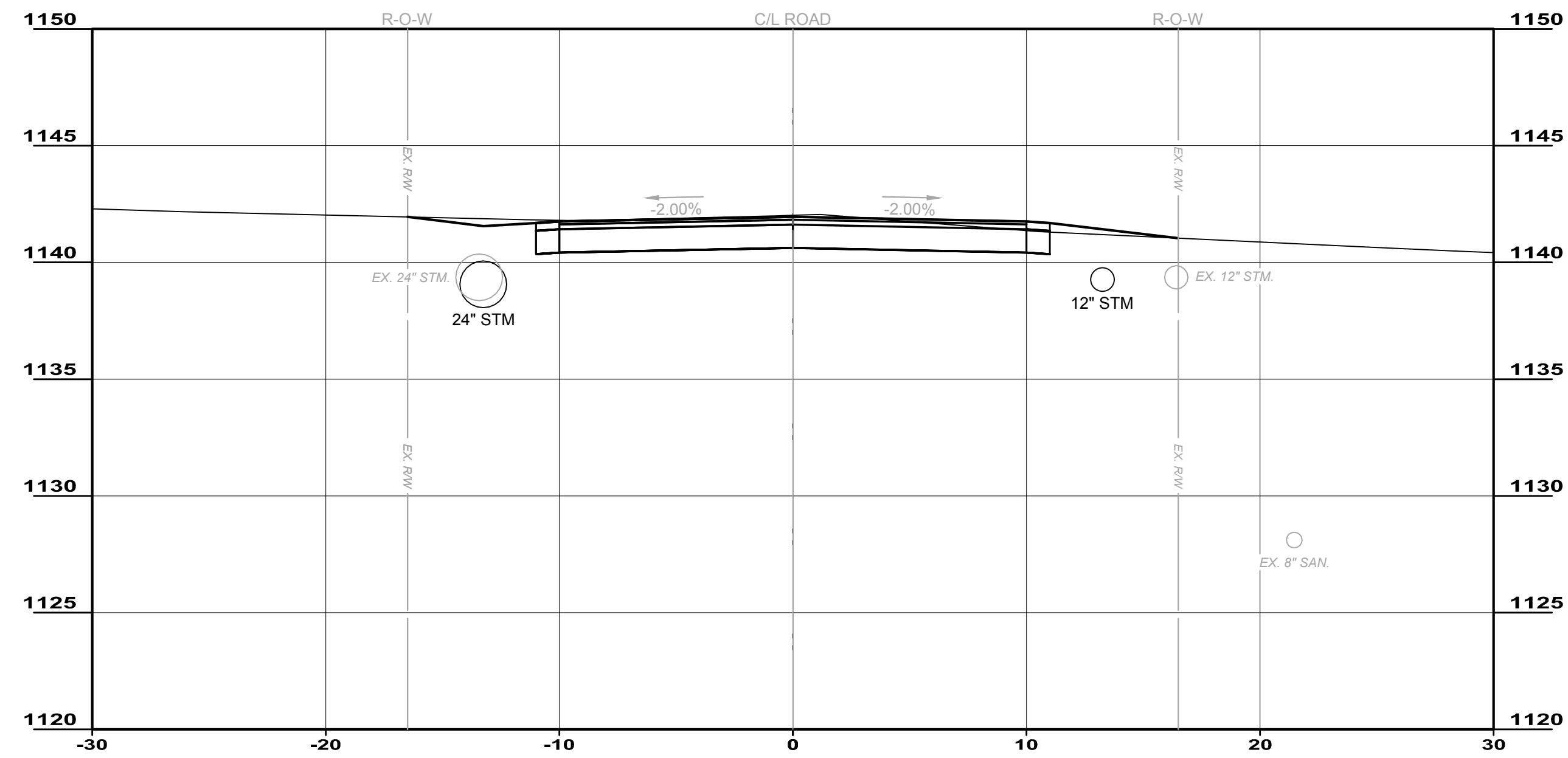


ISSUED FOR:	DESIGN NO.	DATE
ISSUE DATE: 4/9/2019		
SCALE: AS SHOWN		
DESIGNED BY: PMT		
DRAWN BY: PMT		
CHECKED BY: IAG		

**CITY OF HERMITAGE**  
**SOUTH DARBY ROAD STORMWATER AND**  
**ROADWAY IMPROVEMENTS PROJECT**  
 HERMITAGE, PENNSYLVANIA

PROJECT NO.	<b>181039</b>
DISCIPLINE	<b>CIVIL</b>
SHEET NAME	<b>S-8</b>
SHEET	<b>25</b>
OF	<b>25</b>

**SECTIONS 8**



21+50.00