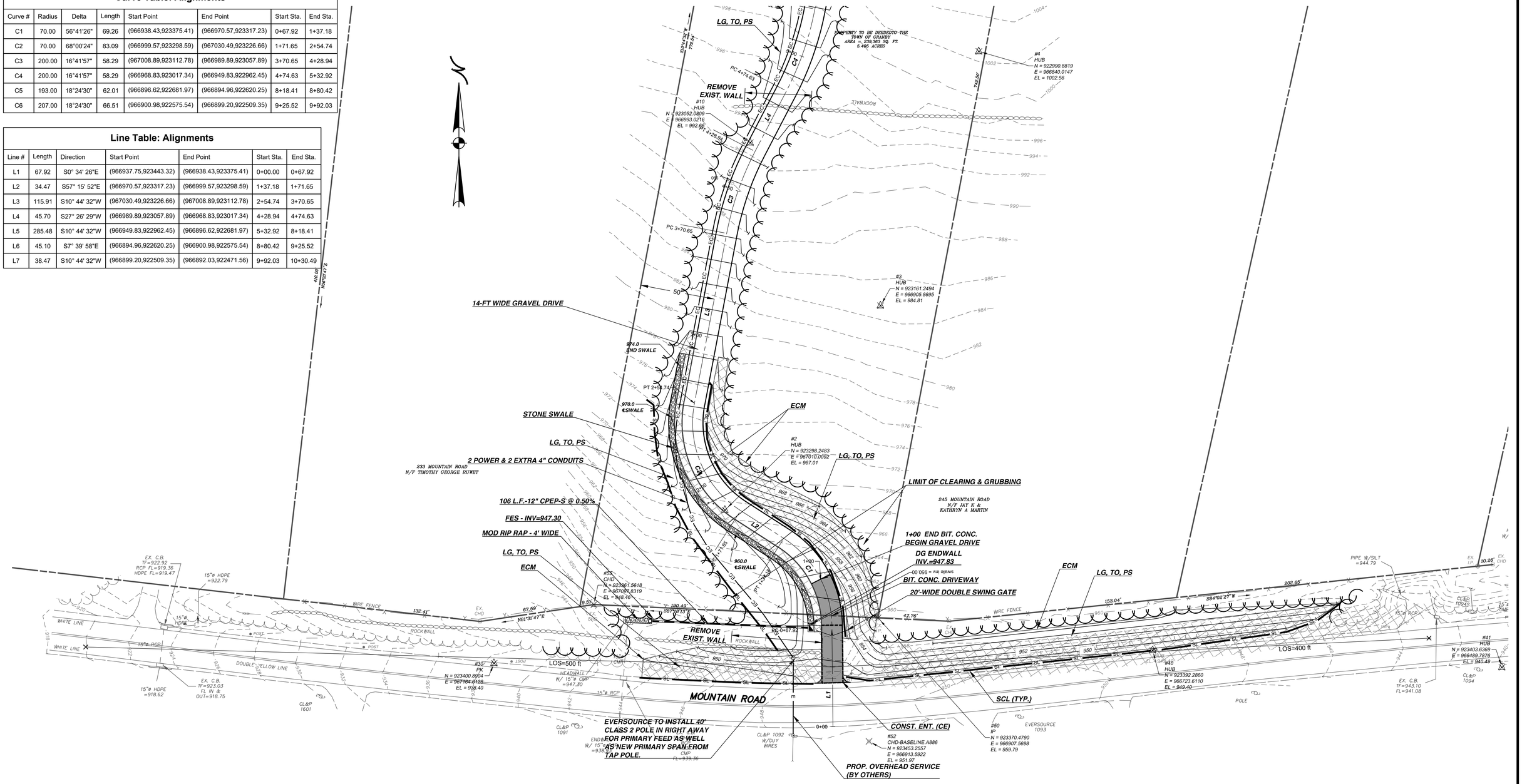
Curve Table: Alignments

Curve #	Radius	Delta	Length	Start Point	End Point	Start Sta.	End Sta.
C1	70.00	56°41'26"	69.26	(966938.43,923375.41)	(966970.57,923317.23)	0+67.92	1+37.18
C2	70.00	68°00'24"	83.09	(966999.57,923298.59)	(967030.49,923226.66)	1+71.65	2+54.74
C3	200.00	16°41'57"	58.29	(967008.89,923112.78)	(966989.89,923057.89)	3+70.65	4+28.94
C4	200.00	16°41'57"	58.29	(966968.83,923017.34)	(966949.83,922962.45)	4+74.63	5+32.92
C5	193.00	18°24'30"	62.01	(966896.62,922681.97)	(966894.96,922620.25)	8+18.41	8+80.42
C6	207.00	18°24'30"	66.51	(966900.98,922575.54)	(966899.20,922509.35)	9+25.52	9+92.03

Line Table: Alignments

Line #	Length	Direction	Start Point	End Point	Start Sta.	End Sta.
L1	67.92	S0° 34' 26"E	(966937.75,923443.32)	(966938.43,923375.41)	0+00.00	0+67.92
L2	34.47	S57° 15' 52"E	(966970.57,923317.23)	(966999.57,923298.59)	1+37.18	1+71.65
L3	115.91	S10° 44' 32"W	(967030.49,923226.66)	(967008.89,923112.78)	2+54.74	3+70.65
L4	45.70	S27° 26' 29"W	(966989.89,923057.89)	(966968.83,923017.34)	4+28.94	4+74.63
L5	285.48	S10° 44' 32"W	(966949.83,922962.45)	(966896.62,922681.97)	5+32.92	8+18.41
L6	45.10	S7° 39' 58"E	(966894.96,922620.25)	(966900.98,922575.54)	8+80.42	9+25.52
L7	38.47	S10° 44' 32"W	(966899.20,922509.35)	(966892.03,922471.56)	9+92.03	10+30.49



LEGEND

	PROPERTY LINE
	BUILDING SETBACK LINE
	EASEMENT
	WETLANDS
	UPLAND REVIEW AREA
-o-	UTILITY POLE
PROPOSED / EXISTING	
236 / 236	CONTOUR
235.4	SPOT GRADE
	CATCH BASIN
	MANHOLE
	STORM SEWER
	CURB
SF / SF	SILT FENCE
SL	SEDIMENT CONTROL LOG
	CONTRACT LIMIT LINE
PROP.	PROPOSED
TYP.	TYPICAL
EXIST.	EXISTING
43B	SOIL BOUNDARY & TYPE
	EXIST. TREE TO BE REMOVED

LIST OF ABBREVIATIONS:

BIT. CONC.	BITUMINOUS CONCRETE
C.B.	CATCH BASIN
CONC.	CONCRETE
C.P.E.P.-S	CORRUGATED POLYETHYLENE PIPE, W/SMOOTH INTERIOR
EXIST.	EXISTING
INV.	INVERT
L.F.	LINEAR FEET
M.H.	MANHOLE
PVMT.	PAVEMENT
P.V.P.	POLYVINYL CHLORIDE
PROP.	PROPOSED
TYP.	TYPICAL

SEDIMENT & EROSION CONTROL MEASURES

MEASURE	PLAN KEY
CONSTRUCTION ENTRANCE	CE
DUST CONTROL	DC
EROSION CONTROL MATTING	ECM
GEOTEXTILE SILT FENCE	GSF
HAY BALE BARRIER	HB
INLET PROTECTION	IP
LAND GRADING	LG
LANDSCAPE MULCH	LM
LANDSCAPE PLANTING	LP
MULCH FOR SEED	MS
OUTLET PROTECTION	OP
PERMANENT LINED WATERWAY	PW
PERMANENT SEEDING	PS
PERMANENT TURF REINFORCEMENT MAT	TRM
RIP RAP	RR
SEDIMENT CONTROL LOG	SCL
STONE CHECK DAM	SCD
STONE SLOPE PROTECTION	SSP
SURFACE ROUGHENING	SR
TOPSOILING	TO

GRAPHIC SCALE

30 0 30 60

(IN FEET)
1 inch = 30 ft.

UTILITY WARNING

The locations of existing underground utilities are shown in an approximate way only and have not been independently verified by the Owner or its representative. Utilities not shown on this plan may exist. The Contractor shall determine the exact location of all existing utilities before commencing work, and agrees to be fully responsible for any and all damages which might be occasioned by the Contractor's failure to exactly locate and preserve any and all underground utilities. The Contractor shall use CALL BEFORE YOU DIG, 811, https://www.cbyd.com/, prior to any construction activity.

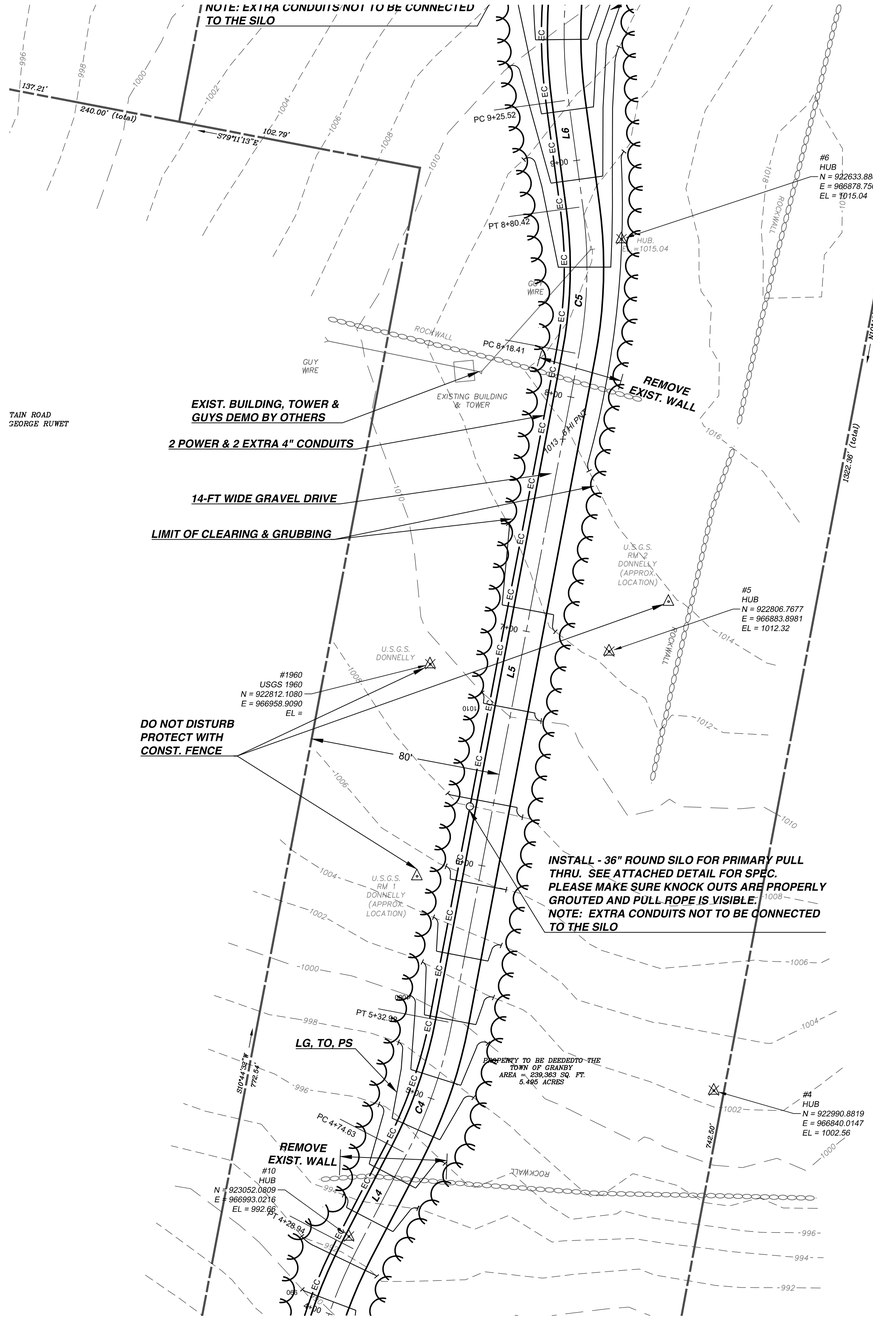
STATE OF CONNECTICUT KEVIN W. CLARK No. 12311 LICENSED PROFESSIONAL ENGINEER

NO.	DATE	DESCRIPTION
		REVISIONS

PLAN
TOWN OF GRANBY
ACCESS DRIVE TO COMMUNICATIONS TOWER
239 MOUNTAIN ROAD
GRANBY, CONNECTICUT

SCALE: 1"=30'	DATE: September 5, 2025	JOB #:2023.G04	SHEET: 1 OF 6

TOWN OF GRANBY
ENGINEERING DEPARTMENT
GRANBY TOWN HALL
15 NORTH GRANBY ROAD
GRANBY, CONNECTICUT 06035
PHONE: (860) 844-5318 FAX: (860) 844-5325



GRAPHIC SCALE

30 0 30 60

(IN FEET)
1 inch = 30 ft.

UTILITY WARNING

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KEVIN W. CLARK
No. 12318

NO.	DATE	DESCRIPTION

REVISIONS

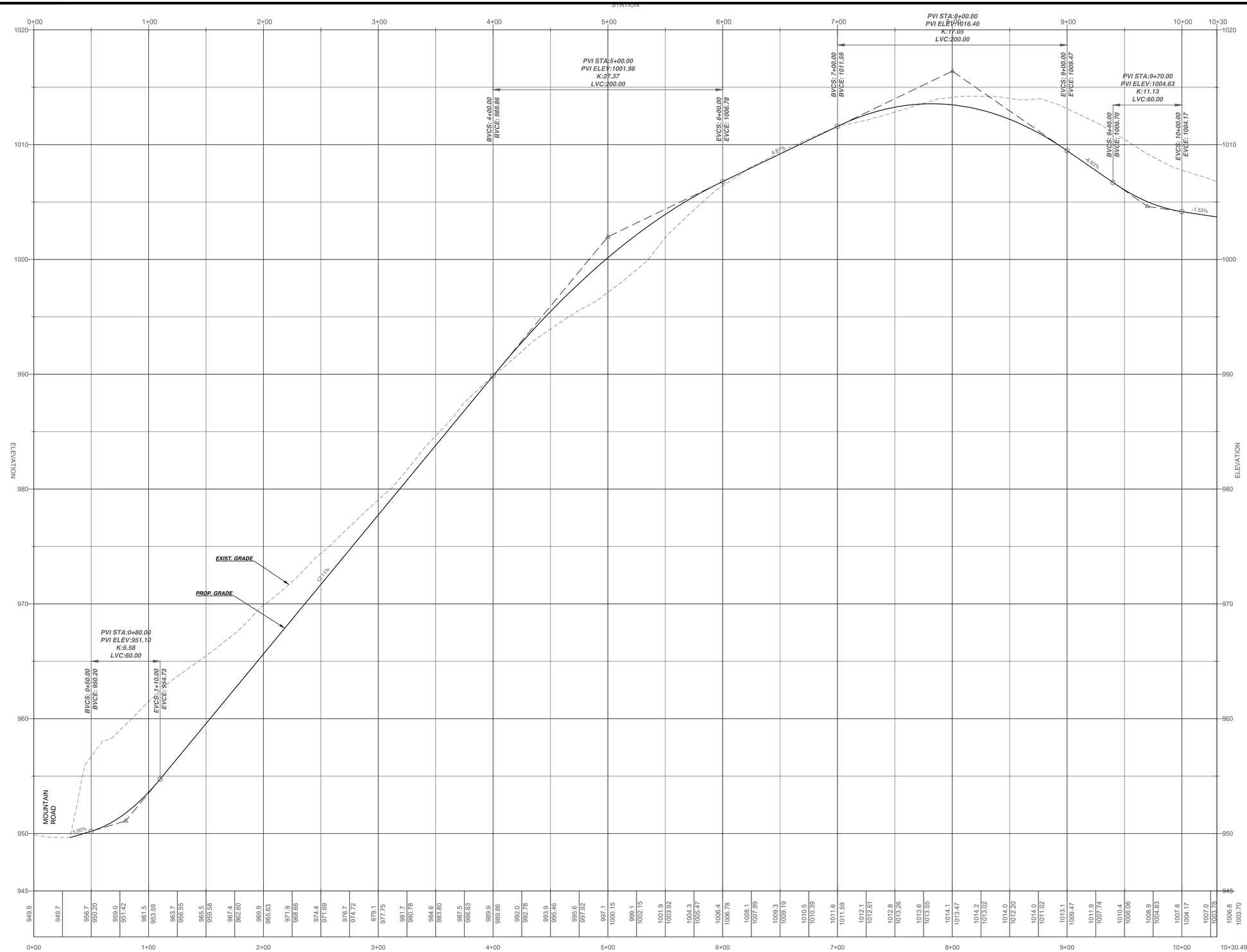
PLAN
TOWN OF GRANBY
ACCESS DRIVE TO COMMUNICATIONS TOWER
239 MOUNTAIN ROAD
GRANBY, CONNECTICUT

SCALE: 1"=30'
DATE: September 5, 2025
JOB #: 2023.G04
SHEET: 2 OF 6

TOWN OF GRANBY
ENGINEERING DEPARTMENT

GRANBY TOWN HALL
15 NORTH GRANBY ROAD
GRANBY, CONNECTICUT 06035
PHONE: (860) 844-5318 FAX: (860) 844-5325

\\GTH-AD1\Building\Town Engineer\G_2023\2023.G04\dwg\Mountain Road_CIVIL000.dwg



GRAPHIC SCALE

40 0 40 80

(IN FEET)
1 inch = 40 ft.

UTILITY WARNING

The locations of existing underground utilities are shown in an approximate way only and have not been independently verified by the Owner or its representative. Utilities not shown on this plan may exist. The Contractor shall determine the exact location of all existing utilities before commencing work, and agrees to be fully responsible for any and all damages which might be occasioned by the Contractor's failure to exactly locate and preserve any and all underground utilities. The Contractor shall use CALL BEFORE YOU DIG, 811, https://www.cbyd.com/, prior to any construction activity.

NO.	DATE	DESCRIPTION

REVISIONS

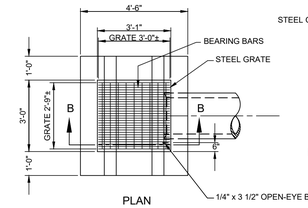
PROFILE
TOWN OF GRANBY
ACCESS DRIVE TO COMMUNICATIONS TOWER
239 MOUNTAIN ROAD
GRANBY, CONNECTICUT

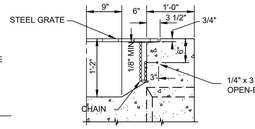
SCALE: H:1"=40' V: 1"=4	DATE: September 5, 2025	JOB #:2023.G04	SHEET: 3 OF 6

STATE OF CONNECTICUT · KEVIN W. CLARK · No. 12316 · LICENSED PROFESSIONAL ENGINEER

TOWN OF GRANBY CONNECTICUT EST 1786

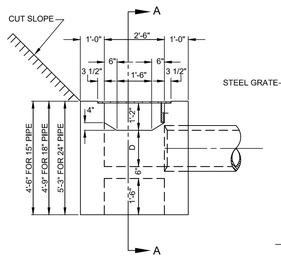
TOWN OF GRANBY
ENGINEERING DEPARTMENT
GRANBY TOWN HALL
15 NORTH GRANBY ROAD
GRANBY, CONNECTICUT 06035
PHONE: (860) 844-5318 FAX: (860) 844-5325

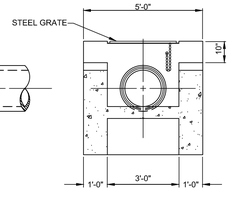


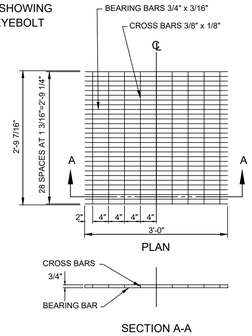


HALF SECTION THRU B-B SHOWING LOCATION OF CHAIN & EYEBOLT

TYPE "D-G" ENDWALL	
PIPE DIAMETER (INCHES)	VOLUME (CU. YDS. CLASS "A" CONCRETE
15	2.44
18	2.57
24	2.85







GENERAL NOTES:

THIS ENDWALL SHALL BE USED ONLY AT A LOCATION WHERE IT WILL NOT BE A HAZARD TO VEHICLES THAT RUN OFF THE ROAD. IN NO CASE WILL THE LOCATION OF THIS ENDWALL BE WITHIN THE CLEAR ZONE.

ALL EDGES OF EXPOSED SURFACES TO BE CHAMFERED APPROXIMATELY ONE INCH.

IN CONSTRUCTING THIS TYPE "D-G" ENDWALLS, CARE MUST BE TAKEN TO HAVE THE SHORT AXIS OF THE WELL OPENING PARALLEL TO THE LONG AXIS OF THE GRATE IN ORDER TO ALLOW THE BEARING BARS TO PERFORM THEIR FUNCTION PROPERLY.

TYPE "D-G" ENDWALLS TO BE CONSTRUCTED OF CLASS "A" CONCRETE OR CEMENT RUBBLE MASONRY.

STEEL GRATING MECHANICALLY LOCKED UNDER HYDRAULIC PRESSURE, WELDED, OR ELECTROFORGED. APPROXIMATE WEIGHT = 45 LBS.. THE GRATE SHALL BE GALVANIZED IN ACCORDANCE WITH M.06.03.

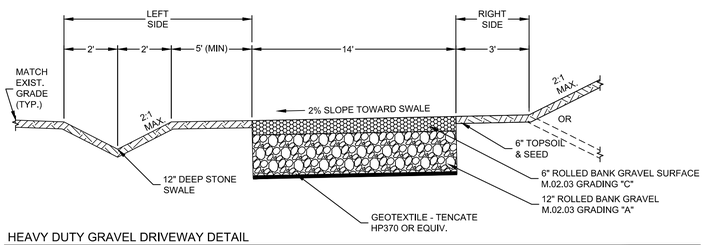
CONSTRUCTION METHODS AND MATERIALS TO CONFORM TO CONNDOT FORM 816 AS AMENDED.

TYPE "D-G" ENDWALL DETAIL

(NOT TO SCALE)

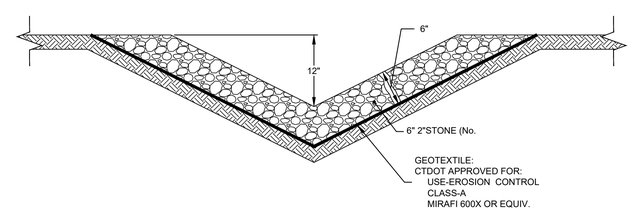
20' DOUBLE SWING GATE DETAIL

(NOT TO SCALE)



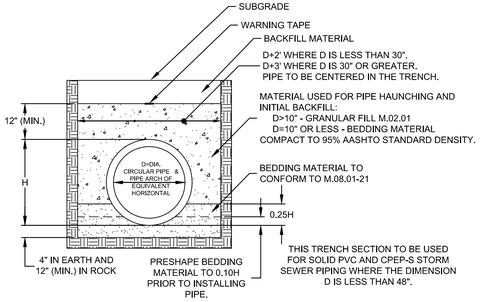
HEAVY DUTY GRAVEL DRIVEWAY DETAIL

(NOT TO SCALE)



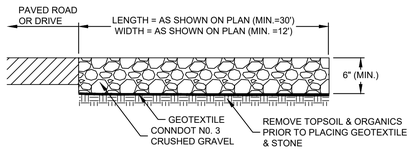
STONE SWALE DETAIL

(NOT TO SCALE)



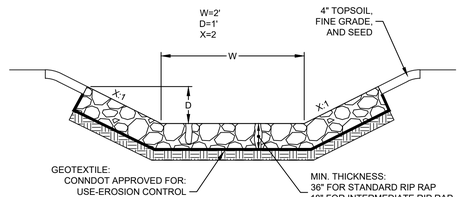
STORM SEWER TRENCH DETAIL

(NOT TO SCALE)



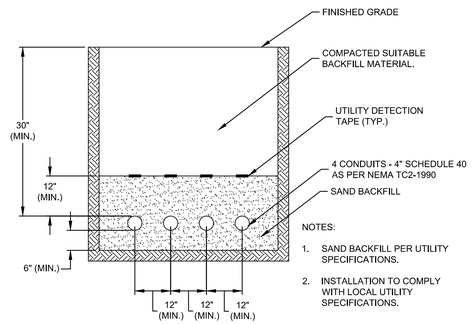
CONSTRUCTION ENTRANCE DETAIL (CE)

(NOT TO SCALE)



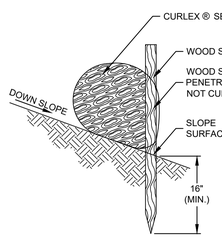
RIP RAP CHANNEL DETAIL

(NOT TO SCALE)



ELECTRICAL CONDUIT TRENCH DETAIL

(NOT TO SCALE)



NOTES:

1. CURLEX SEDIMENT LOGS AS MANUFACTURED BY AMERICAN EXCELSIOR COMPANY. SEDIMENT LOG SIZE TO BE 9-INCHES UNLESS OTHERWISE NOTED ON THE PLANS.
2. TRENCH OPTION IS MOST APPLICABLE IN LOOSE, UNCONSOLIDATED SOILS.
3. STAKE SIZE:
   $1\frac{1}{2}$" X $1\frac{1}{2}$" X 30" WOODEN STAKES ARE RECOMMENDED FOR 6", 9", AND 12" SEDIMENT LOGS.
   $1\frac{1}{2}$" X $1\frac{1}{2}$" X 48" WOODEN STAKES ARE RECOMMENDED FOR 20" SEDIMENT LOGS.
4. INSTALLATION TO BE AS PER THE MANUFACTURERS INSTRUCTIONS.

CURLEX ® SEDIMENT LOG STAKE DETAIL (ON BARE SOIL)

(NOT TO SCALE)

STATE OF CONNECTICUT · KEVIN W. CASEY · No. 12311 · LICENSED PROFESSIONAL ENGINEER

NO.	DATE	DESCRIPTION

REVISIONS

NOTES & DETAILS
TOWN OF GRANBY
ACCESS DRIVE TO COMMUNICATIONS TOWER
239 MOUNTAIN ROAD
GRANBY, CONNECTICUT

SCALE: NONE	DATE: September 5, 2025	JOB #:2023.G04	SHEET: 4 OF 6

TOWN OF GRANBY
ENGINEERING DEPARTMENT
GRANBY TOWN HALL
15 NORTH GRANBY ROAD
GRANBY, CONNECTICUT 06035
PHONE: (860) 844-5318 FAX: (860) 844-5325

GENERAL NOTES:

1. THE CONTRACTOR SHALL USE "CALL BEFORE YOU DIG, 1-800-922-4455" PRIOR TO ANY CONSTRUCTION ACTIVITY.
2. CONSTRUCTION METHODS AND MATERIALS, SHALL CONFORM TO THE REGULATIONS OF CONNDOT FORM 819 AS AMENDED.
3. THE CONTRACTOR SHALL VERIFY ALL LINES AND GRADES PRIOR TO ANY CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND INCURRING THE COST OF ALL REQUIRED PERMITS, INSPECTIONS, CERTIFICATES, ETC.
5. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR JOBSITE SAFETY AND SHALL COMPLY WITH ALL FEDERAL AND STATE OCCUPATIONAL SAFETY AND HEALTH AUTHORITY (O.S.H.A.) REGULATIONS.
6. THE CONTRACTOR SHALL PROVIDE, INSTALL, MAINTAIN AND REMOVE ALL SHORING, BRACING AND OTHER ITEMS NECESSARY TO RETAIN BANKS OR EXCAVATIONS AND PREVENT CAVE-INS AND DISPLACEMENT OF ADJOINING GROUND. SHORING AND BRACING SHALL BE ENTIRELY INDEPENDENT OF FOOTINGS.
7. THE CONTRACTOR SHALL KEEP TRENCHES FREE FROM STANDING WATER AT ALL TIMES UNTIL PERMANENT WORK IS IN PLACE. ALL NECESSARY WELL-POINTING AND/OR PUMPING SHALL BE PERFORMED AND MAINTAINED AT THE CONTRACTOR'S EXPENSE.
8. ALL DISTURBED AREAS ARE TO RECEIVE SIX (6) INCHES OF TOPSOIL AND SEED UNLESS OTHERWISE SHOWN. SEED TO BE ONE OF THE TYPES NOTED ON THIS SHEET. SEED TYPES (NO.) NOT TO BE MIXED.
9. ALL EXPOSED CURB ENDS ARE TO BE TAPERED.
10. SAW CUT EXISTING CURBS AND PAVEMENT WHERE THEY MEET PROPOSED CURBS OR PAVEMENT.
11. PROPERTY LINE INFORMATION TAKEN FROM A CLASS A-2, T-2 SURVEY ENTITLED," BOUNDARY PLAN, PREPARED FOR BRIAN SCOTT PIERCE TRUSTEE, 229 MOUNTAIN ROAD, GRANBY, CONNECTICUT, SCALE: 1"=80', DATE: 9/18/24, DENNO LAND SURVEYING AND CONSULTING, LLC."

GENERAL EROSION AND SEDIMENT CONTROL NOTES:

1. EROSION AND SEDIMENT CONTROL MEASURES SHALL CONFORM TO, "CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL, THE CONNECTICUT COUNCIL ON SOIL AND WATER CONSERVATION, EFFECTIVE MARCH 30, 2024," AS AMENDED.
2. THE SEDIMENT AND EROSION CONTROL NOTES AND DETAILS INCLUDED IN THE CONSTRUCTION DOCUMENTS MAY REFER TO INFORMATION LOCATED IN THE GUIDELINES. THE CONTRACTOR SHALL HAVE A COPY OF THE GUIDELINES AVAILABLE FOR REFERENCE DURING CONSTRUCTION.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION, MAINTENANCE, AND REMOVAL OF ALL SEDIMENTATION AND EROSION CONTROL MEASURES.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING THE NEARBY STREETS OF ANY SEDIMENT OR CONSTRUCTION DEBRIS ORIGINATING FROM THIS PROJECT.
5. EXCESS SOIL MATERIAL FROM THE PROPOSED CONSTRUCTION IS TO BE REMOVED FROM THE SITE. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FOR ITS DEPOSITION.
6. THE CONSTRUCTION ENTRANCE, IF NOTED, AND THE SEDIMENT CONTROLS LOCATED AT THE PERIMETER OF THE PROPOSED EDGE OF DISTURBANCE(S), SHALL BE INSTALLED PRIOR TO ANY CONSTRUCTION ACTIVITY. INSTALLATION SHALL BE AS PER THE MANUFACTURERS' INSTRUCTIONS AND AS DETAILED ON THESE PLANS.
7. ALL STORM DRAINAGE INLETS ARE TO BE PROTECTED FROM SEDIMENT INTRUSION. SEDIMENT SHALL BE REMOVED FROM ALL DRAINAGE STRUCTURES, PIPE SYSTEMS, OUTLET STRUCTURES, RIP RAP, AND CHANNELS.
8. ALL STOCKPILES OF SOIL ARE TO BE ENCIRCLED WITH SILT FENCE.
9. THE CONTRACTOR SHALL EMPLOY TEMPORARY EROSION CONTROL MEASURES SUCH AS, SILT FENCE, SEDIMENT LOGS, STONE BARRIERS, EROSION CONTROL MATTING, SEDIMENT TRAPS, DEWATERING BASINS, AND TEMPORARY STORMWATER DIVERSIONS, AS NECESSARY DURING CONSTRUCTION, TO PROTECT THE SITE AND ADJACENT PROPERTIES FROM EROSION.
10. ALL LOCATIONS, INCLUDING SWALES, LAWN AREAS, AND STORM SEWER DISCHARGE POINTS, THAT ARE TO RECEIVE A CONCENTRATED FLOW OF STORMWATER, ORIGINATING FROM SURFACE FLOW OR STORM SEWER SYSTEMS, SHALL BE STABILIZED AND PROTECTED FROM EROSION PRIOR TO RECEIVING THE WATER.
11. DAMAGED SECTIONS OF SEDIMENT BARRIERS SHALL BE REPLACED BY THE CONTRACTOR. SEDIMENT DEPOSITS SHALL BE REMOVED BY THE CONTRACTOR WHEN THEY REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER. SEDIMENT SHALL BE REMOVED IN A MANNER THAT DOES NOT CAUSE ADDITIONAL EROSION OR POLLUTION.
12. AT A MINIMUM, ALL SEDIMENT CONTROL MEASURES SHALL BE INSPECTED BY THE CONTRACTOR AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL AMOUNT OF 0.5 INCHES OR GREATER. REPAIR SEDIMENT CONTROL MEASURE AS NECESSARY.
13. DISTURBED AREAS ARE TO BE STABILIZED AS SOON AS POSSIBLE AFTER DISTURBANCE. WHEN GRADING OF THE DISTURBED AREA WILL BE SUSPENDED FOR A PERIOD OF 30 OR MORE CONSECUTIVE DAYS, BUT LESS THAN 5 MONTHS, STABILIZE THE SITE WITHIN 7 DAYS OF THE SUSPENSION OF GRADING THROUGH THE USE OF MULCH OR OTHER MATERIALS APPROPRIATE FOR USE AS A TEMPORARY SOIL PROTECTOR. FOR SURFACES THAT ARE NOT TO BE REWORKED WITHIN 5 MONTHS BUT WILL BE REWORKED WITHIN 1 YEAR, USE TEMPORARY SEEDING, MULCH FOR SEED OR WHEN SLOPES ARE LESS THAN 3:1, WOOD CHIPS, BARK CHIPS OR SHREDDED BARK. FOR SURFACES THAT ARE TO BE REWORKED AFTER 1 YEAR, USE PERMANENT SEEDING AND MULCH FOR SEED.
14. EXCAVATED STUMPS AND CUT TREES ARE TO BE REMOVED TO AN OFF-SITE DISPOSAL AREA. BRUSH AND SLASH ARE TO BE CHIPPED AND STOCKPILED FOR FUTURE USE OR SPREAD ON THE SITE AS DIRECTED. EXCAVATED STUMPS,CUT TREES, BRUSH, AND SLASH, ARE NOT TO BE BURIED ON-SITE.

PROJECT NARRATIVE:

THE PROPOSED PROJECT CONSISTS OF THE CONSTRUCTION OF A NEW COMMUNICATIONS TOWER WITH AN ACCESS DRIVE AND ASSOCIATED IMPROVEMENTS. THE PROJECT AREA IS LOCATED AT 239 MOUNTAIN ROAD ON PROPERTY ACQUIRED BY THE TOWN OF GRANBY. THE SITE CONTAINS 5.49 ACRES AND IS MOSTLY WOODED. THE SITE SLOPES UP TO THE SOUTH FROM MOUNTAIN ROAD.

THERE ARE NO INLAND WETLAND SOILS OR WATERCOURSES ON THE SITE. THE SOILS ARE PAXTON AND MONTAUK FINE SANDY LOAMS. THESE ARE WELL DRAINED SOILS. SEVEN TEST HOLE WERE EXCAVATED TO DETERMINE THE DEPTH TO BEDROCK. THE DEPTH VARIED FROM NOT ENCOUNTERED TO AS SHALLOW AS EIGHTEEN INCHES. STORMWATER FROM THE SITE DRAINS TO MOUNTAIN ROAD WHERE IT IS COLLECTED INTO CATCH BASINS AS PIPED NORTH TO THE OPPOSITE SIDE OF THE ROAD.

APPROXIMATELY 1.71 ACRES OF THE SITE SITE AND THE ADJACENT FRONTAGE ALONG MOUNTAIN ROAD WILL BE DISTURBED BY CONSTRUCTION. STORMWATER WILL BE COLLECTED ON THE EAST SIDE OF THE PROPOSED DRIVE IN A SWALE, AND COLLECTED IN A "DG" ENDWALL. IT WILL THEN BE PIPED TO AN EXISTING HEADWALL STRUCTURE.
THE APPLICANT IS PROPOSING MITIGATION MEASURES IN AREAS SHOWN ON THE PLANS. THIS WILL CONSIST OF THE FOLLOWING:

TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED DURING CONSTRUCTION. THE ANTICIPATED CONSTRUCTION WILL BEGIN IN THE FALL OF 2025 AND BE COMPLETED BY 2026.

THE RESPONSIBLE PARTY IS:

KIRK A. SEVERANCE
DIRECTOR OF PUBLIC WORKS.
52 NORTH GRANBY ROAD
GRANBY, CT 06035
PHONE: (860) 653-6535

OVERALL CONSTRUCTION SEQUENCE:

1. FLAG THE LIMITS OF CONSTRUCTION AND TREE CLEARING.
2. INSTALL PERIMETER EROSION AND SEDIMENT CONTROLS.
3. SITE MEETING WITH TOWN ENGINEER.
4. CUT TREES WITHIN THE CLEARING LIMITS AND REMOVE CUT WOOD. REMOVE AND DISPOSE OF STUMPS.
5. STRIP AND STOCKPILE THE EXISTING TOPSOIL AND OTHER SURPLUS MATERIAL. STABILIZE THE STOCKPILE(S).
6. ROUGH GRADE THE DRIVE ENTRANCE AREA AND INSTALL CONSTRUCTION ENTRANCE. ROUGH GRADE THE AREA AREA ADJACENT TO MOUNTAIN ROAD FOR LINE-OF-SIGHT IMPROVEMENT. STABILIZE SLOPES.
7. ROUGH GRADE DRIVE AND SHOULDERS.
8. INSTALL NEW UTILITY POLE AND CONDUITS TO TOWER SITE.
9. STABILIZE DRIVEWAY SHOULDER AREAS .
10. INSTALL STORM DRAINAGE AND STONE SWALE.
11. INSTALL DRIVEWAY BASE AND SURFACE MATERIAL.
12. INSTALL TOWER AND ASSOCIATED IMPROVEMENTS. THIS WORK TO BE DONE BY OTHERS.
13. PAVE DRIVEWAY AS SHOWN.
14. MAINTAIN EROSION AND SEDIMENT CONTROLS UNTIL SITE IS STABILIZED.
15. REMOVE ANY REMAINING EROSION CONTROLS.

Table 5. 5 Seed Mixtures for Permanent Seeding, well or excessively drained soils, no mowing

No.	Seed Mixture [1]	Lbs/Acre	Lbs/ 1,000 Sq. Ft.
5	White Clover	10	0.25
	Perennial Rye Grass	2	0.05
	Total	12	0.30
6	Creeping Red Fescue	20	0.50
	Redtop	2	0.05
	Perennial Rye Grass	20	0.50
	Total	42	1.05
7	Smooth Bromegrass	15	0.35
	Perennial Ryegrass	5	0.10

No.	Seed Mixture [34]	Lbs/Acre	Lbs/ 1,000 Sq. Ft.
8	Paniccledleaf Tick Trefoil with inoculant[10]	10	0.25
	Total	30	0.79
	Switchgrass	101	0.25
	Weeping lovegrass	3	0.07
	Little Bluestem	101	0.25
	Total	23	0.57
9	Creeping Red Fescue	10	.25
	Crown Vetch (Chemung, Pennqift) with inoculant[10]	15	.35
	(or Flatpea with inoculant[10])	(30)	(.75)
	Tall Fescue or Smooth Bromegrass	15	.35
	Redtop	2	.05
	Total	42 (or 57)	1.00 (or 1.40)

[1] Wildflower mix containing New England Aster, Baby's Breath, Black Eye Susan, Catchfly, Dwarf Columbine, Purple Coneflower, Lance-leaved Coreopsis, Cornflower, Ox-eye Daisy, Scarlet Flax, Foxglove, Gayfeather, Rocky Larkspur, Spanish Larkspur, Corn Poppy, Spurred Snapdragon, Wallflower and/or Yarrow may be added to any seed mix given. Most seed suppliers carry a wildflower mixture that is suitable for the Northeast and contains a variety of both annual and perennial flowers. Seeding rates for the specific mixtures should be followed.

10	Creeping Red Fescue	20	0.45
	Redtop	2	0.05
	Crown Vetch with inoculant[10]	15	0.35
	(or Flatpea with inoculant[10])	(30)	(0.75)
	Total	37 (or 52)	0.85 (or 1.25)
11	Paniccledleaf Tick Trefoil with inoculant[10]	8	0.20
	Crown Vetch with inoculant[10]	15	0.35
	Creeping Red Fescue or Tall Fescue or Smooth Bromegrass	20	0.45
	Total	43	1.00
12[2]	Switchgrass	101	0.25
	Perennial Ryegrass	5	0.10
	Crown Vetch with inoculant[10]	15	0.35
	Total	45	1.05

No.	Seed Mixture [34]	Lbs/Acre	Lbs/ 1,000 Sq. Ft.
16	Tall Fescue	20	0.45
	Flatpea with inoculant[10]	30	0.75
	Total	50	1.20
	Total	100	2.30
21	Creeping Red Fescue	40	0.90
	Tall Fescue	20	0.45
	Total	60	1.35
	Paniccledleaf Tick Trefoil	2.0	0.05
	Total	13.5	0.33

[2] Considered to be a warm season mix.

STORM DRAINAGE NOTES:

1. STORM SEWER PIPE TO BE AS NOTED:
   - C.P.E.P CORRUGATED POLYETHYLENE PIPE
   - C.P.E.P.-P CORRUGATED POLYETHYLENE PIPE PERFORATED
   - C.P.E.P.-S CORRUGATED POLYETHYLENE PIPE WITH A SMOOTH INTERIOR
   - C.P.E.P.-SP CORRUGATED POLYETHYLENE PIPE WITH A SMOOTH INTERIOR, PERFORATED
   - PVC POLY VINYL CHLORIDE
   - RCP REINFORCED CONCRETE PIPE
2. C.P.E.P.-S PIPE TO HAVE BELL-AND-SPIGOT CONNECTIONS WITH A RUBBER GASKET MEETING ASTM F477. WHERE PIPE IS NOTED AS "WATER-TIGHT, IT SHALL MEET THE REQUIREMENTS OF ASTM D3212 AND ASTM F1417.
3. PVC GRAVITY SEWER PIPE 4" TO 15" IN DIAMETER, SHALL BE ASTM 3034 TYPE PSM POLY (VINYL CHLORIDE)(PVC) SEWER PIPE AND FITTINGS, DESIGNATION SDR 35. PVC GRAVITY SEWER PIPE 18" TO 24" IN DIAMETER, SHALL BE ASTM F679 TYPE PSM POLY (VINYL CHLORIDE)(PVC) SEWER PIPE AND FITTINGS, DESIGNATION SDR 35. PIPE JOINTS TO BELL-AND-SPIGOT TYPE AND SHALL COMPLY WITH ASTM D-3212 SPECIFICATION FOR JOINTS FOR DRAIN AND SEWER PLASTIC PIPES USING FLEXIBLE ELASTOMERIC SEALS.
4. CONSTRUCTION OF STORM DRAINAGE SYSTEMS SHALL NORMALLY BEGIN AT THE DOWNSTREAM END AND PROCEED UPSTREAM.
5. ALL LOCATIONS, INCLUDING SWALES, LAWN/LANDSCAPED AREAS, DETENTION BASINS, AND OTHER STORM SEWER DISCHARGE POINTS, THAT ARE TO RECEIVE A CONCENTRATED FLOW OF STORMWATER, ORIGINATING FROM SURFACE FLOW OR STORM SEWER SYSTEMS, SHALL BE STABILIZED AND PROTECTED FROM EROSION PRIOR TO RECEIVING THE WATER.

GEOTEXTILES AND EROSION CONTROL MATTING (ECM)

1. UNLESS OTHERWISE INDICATED, GEOTEXTILES AND EROSION CONTROL MATTING (ECM) SHALL BE APPROVED FOR USE BY CONNDOT FOR THE INTENDED USE. REFER TO THE FOLLOWING DOCUMENT: "QUALIFIED PRODUCTS LIST FOR CONNECTICUT DEPARTMENT OF TRANSPORTATION PROJECTS, JUNE 2015," AS AMENDED.
2. GEOTEXTILES AND EROSION CONTROL MATTING (ECM) SHALL BE INSTALLED AS PER THE MANUFACTURERS' INSTRUCTIONS.

Kevin Clark, PEL **(860) 844-5318**
Town Engineer **townengineer@granby-ct.gov**
Town of Granby
15 North Granby Road
Granby, CT 06035

Project: Proposed Communications Tower

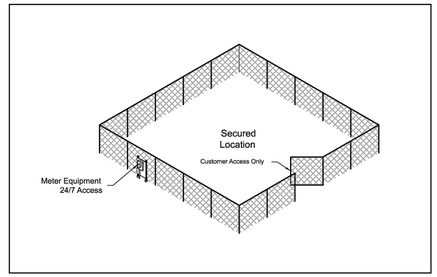
Location: 229 Mountain Road

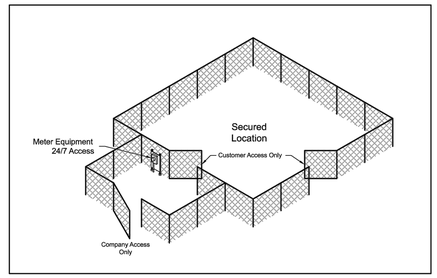
Date: 7/30/2025

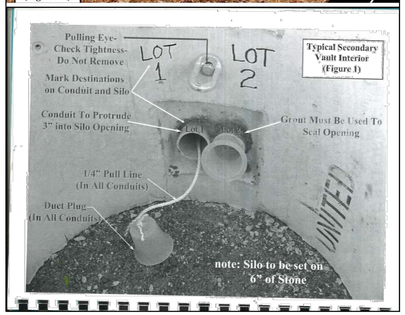
Test Holes for refusal depth only

TEST #	Soil Data	Percolation Rate
DP 0+50 ℄	Ledge @ 96"	
DP 1+00 ℄	Ledge @ 74"	
DP 1+50 ℄	Ledge @ 54"	
DP 2+00 ℄	Ledge @ 18"	
DP 3+00 ℄	No Ledge to 55"	
DP 9+00 ℄	No ledge to 58"	
DP 10+00 ℄	No ledge to 58"	

Metering For Secured Locations





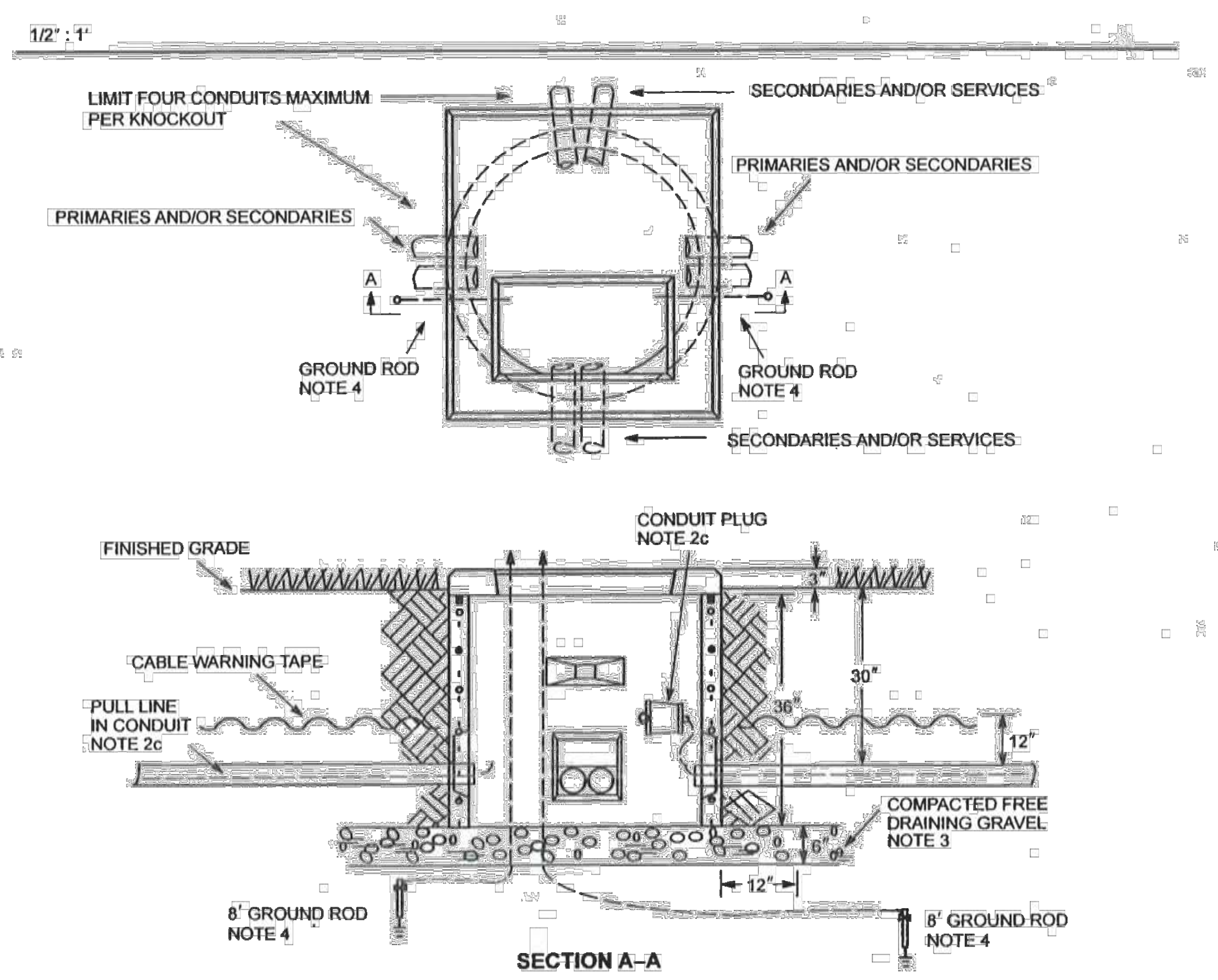


NO.	DATE	DESCRIPTION
		REVISIONS

NOTES & DETAILS
TOWN OF GRANBY
ACCESS DRIVE TO COMMUNICATIONS TOWER
239 MOUNTAIN ROAD
GRANBY, CONNECTICUT

SCALE: NONE	DATE: September 5, 2025	JOB #:2023.G04	SHEET: 5 OF 6

TOWN OF GRANBY
ENGINEERING DEPARTMENT
GRANBY TOWN HALL
15 NORTH GRANBY ROAD
GRANBY, CONNECTICUT 06035
PHONE: (860) 844-5318 FAX: (860) 844-5325

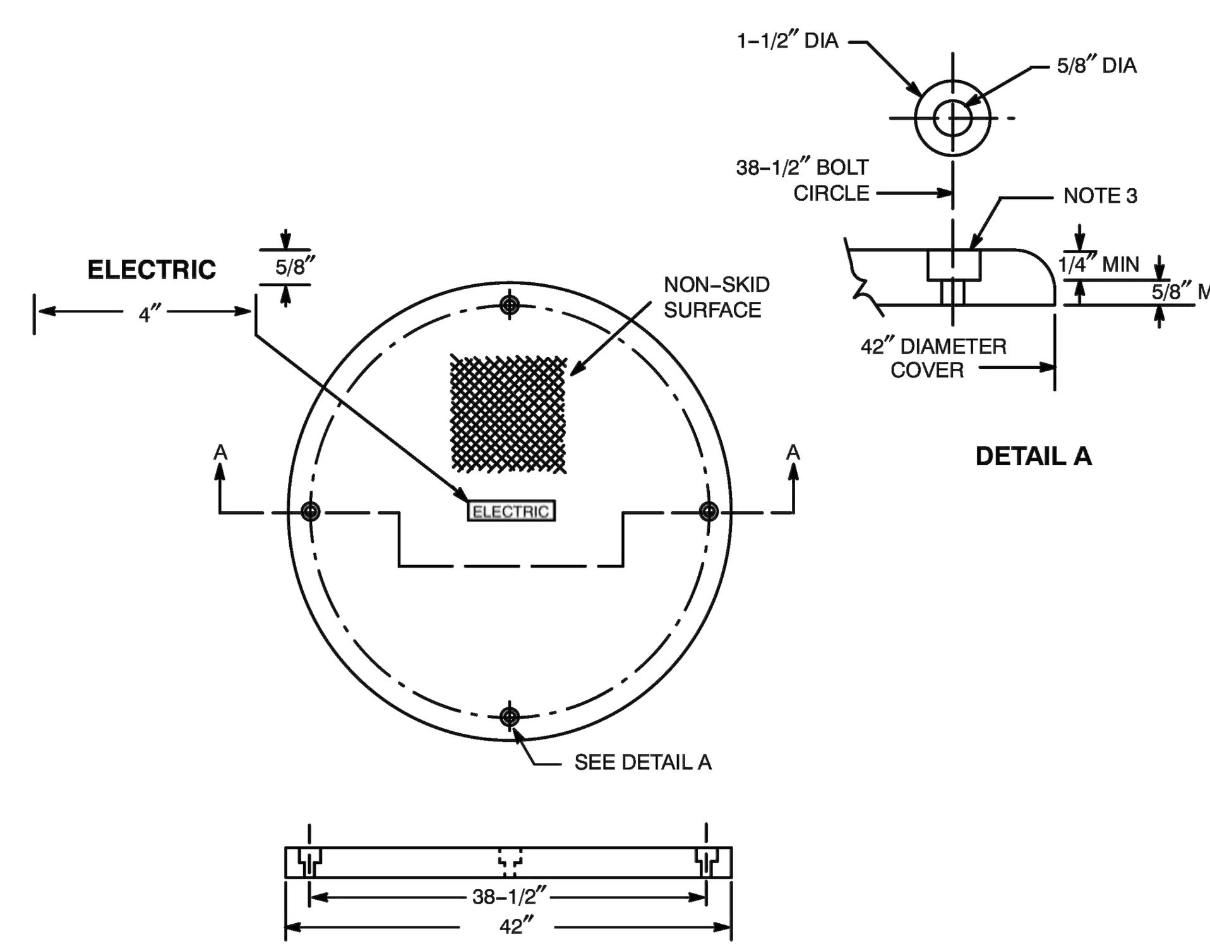


SECTION A–A

Notes

1. Install 42" x 48" x 4" pad, **SPC P–009** and 36" D x 36" H round handhole, **SPC H–020**.
2. Install conduit, with all joints cemented, through knockout to 4 inches inside handhole. Terminate conduit run with end bell (e.g., **SC 0177110** for 3–inch diameter). Conduit destination to be permanently marked on conduit end. Conduit shall be minimum 3–inch–diameter, Schedule 40 PVC. Limit four 4–inch–diameter conduits per knockout.
   a. Primaries and secondaries in conduit to be installed at 30 inches below grade.
   b. Services in conduit to be installed at 24 inches below grade.
   c. Install a 1/4–inch–diameter nylon pull line in each duct, including 10 feet of slack, and secure to conduit plug (e.g., **SC 0175141** for 3–inch–diameter). Plugged duct to be left accessible.
   d. Gaps around conduit at knockout openings shall be sealed with cement mortar to prevent backfill from entering handhole.
3. Install on virgin or well tamped gravel. Where poor soil exists, excavate to 6 inches below bottom of handhole and backfill with compacted clean gravel, free of foreign matter and debris, extending 12 inches past edge of structure. Remaining backfill shall not contain ashes, frozen material, debris, or stones larger than 2 inches in maximum dimension.
4. Galvanized steel ground rods to be installed in trench adjacent to handhole. See **DTR 56.221**.
5. Refer to **DTR 58.107** for transformer connections.
6. Refer to **DTR 54.203** for details on conduit stubs.

ORIGINAL 10/22/99 APPROVED 12/21/01	DIRECT–BURIED IN CONDUIT – INSTALLATION OF CONCRETE PAD FOR SINGLE–PHASE PAD–MOUNTED TRANSFORMERS			
	NORTHEAST UTILITIES	CONSTRUCTION STANDARD	DTR 58.185	2



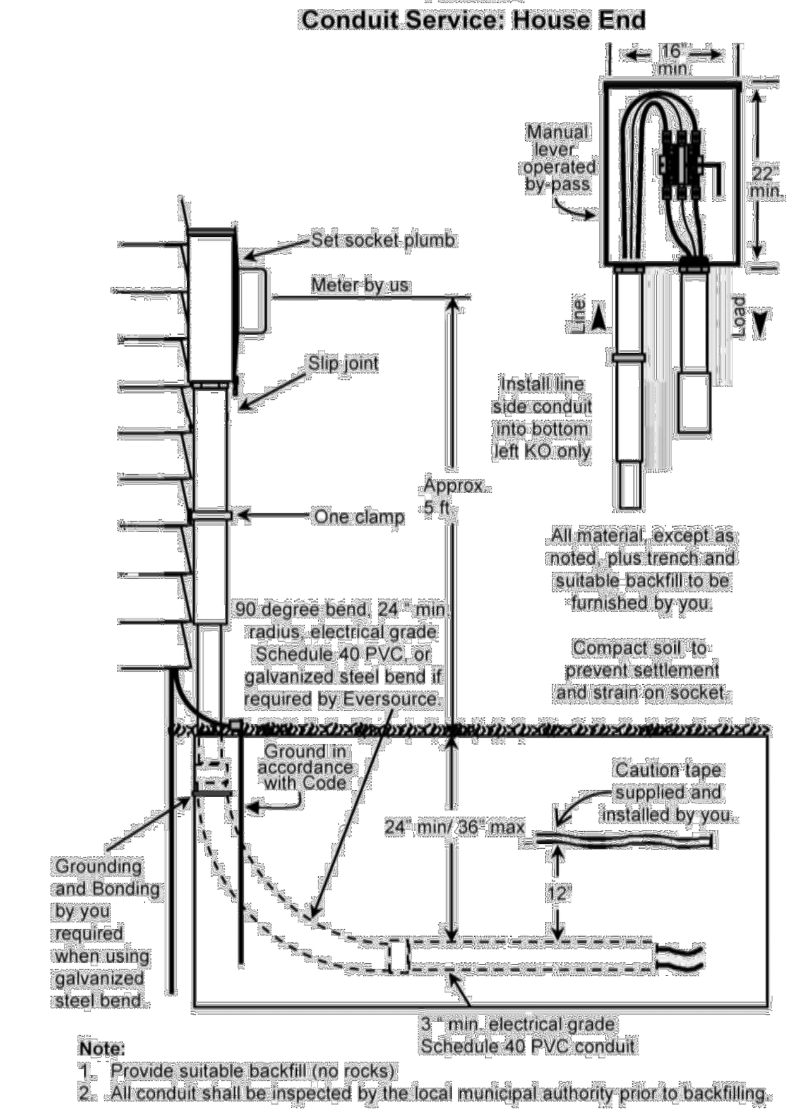
SECTION A–A

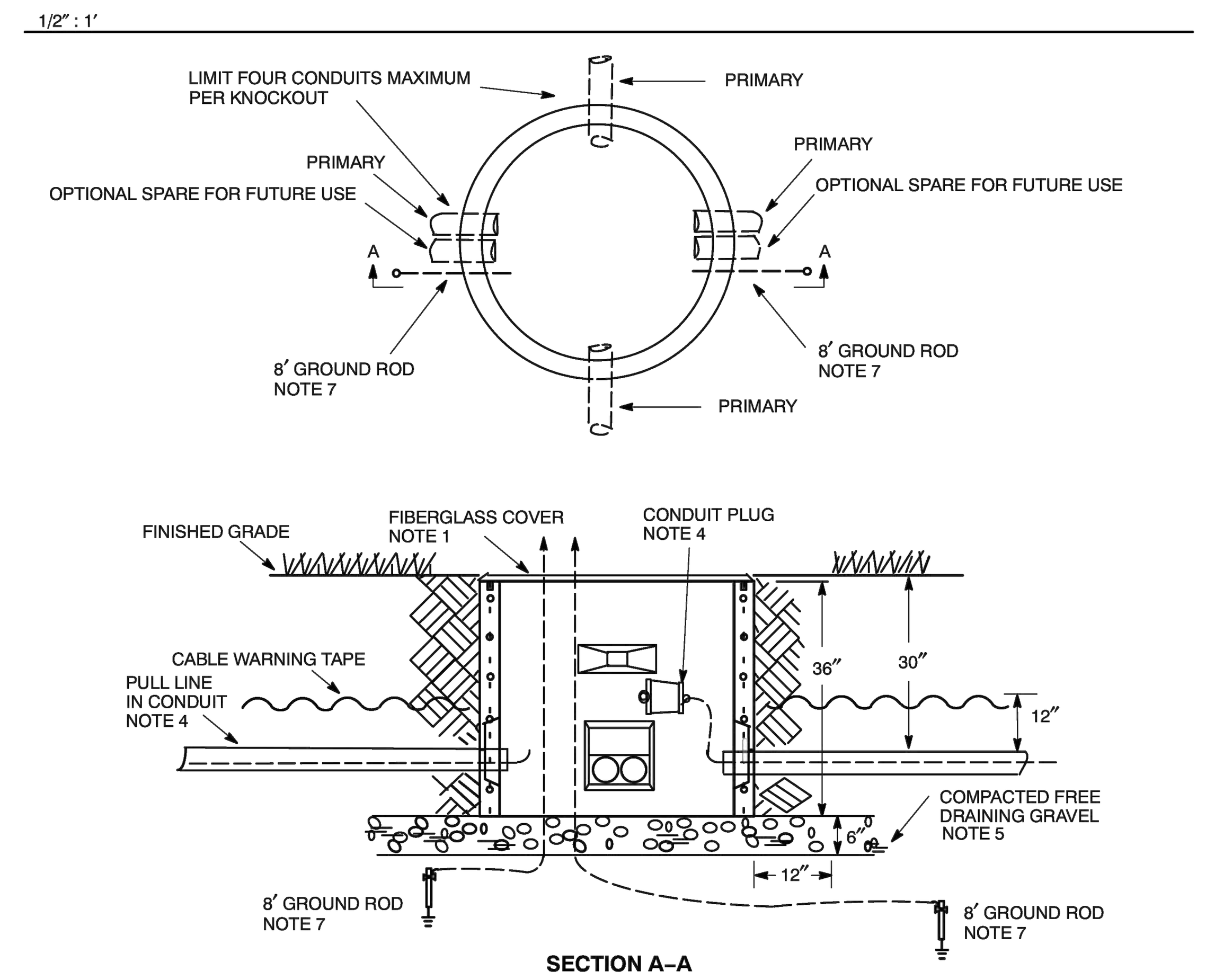
Notes

1. Cover shall conform to ASTM D790.
2. DESIGN LOADING shall be 4,500 pounds applied at the center of the cover over a 6" X 6" area. The cover will be supported by a 36–inch ID ring. The total deflection of the cover shall not exceed 4 inches with load applied for 5 minutes.
3. Plywood core designs shall be encapsulated in a fiberglass–reinforced polyester laminate a minimum of 1/8 inch thick on all surfaces, consisting of a spray up of chopped glass and resin totaling 5 ounces per square foot of surface. The glass content will be a minimum of 25 percent on the top, and will be increased on the bottom if necessary to meet the design loading specified in NOTE 1. The plywood core will comply with the American Plywood Association Standard PS 1–1974, DFPA GRADE, GROUP 1, EXTERIOR C–C or better.
4. The cover shall be permanently embossed with both manufacturer's name and the word "ELECTRIC" as shown.
5. The resin and the gel coat will be pigmented dark green, and there shall be no exposed glass on any surface.
6. A stainless steel or brass washer, 1–3/8 inch OD with a 5/8–inch hole, will be epoxied into the pentahead recess. There should be no exposed wood in the recess.

ORIGINAL 5/13/86 APPROVED 6/14/97	COVER – HANDHOLE – HEXAGONS AND ROUND 42–INCH DIAMETER			
	EVERSOURCE ENERGY	MATERIAL SPECIFICATION	SPC C–710	3

FIGURE 2
Conduit Service: House End



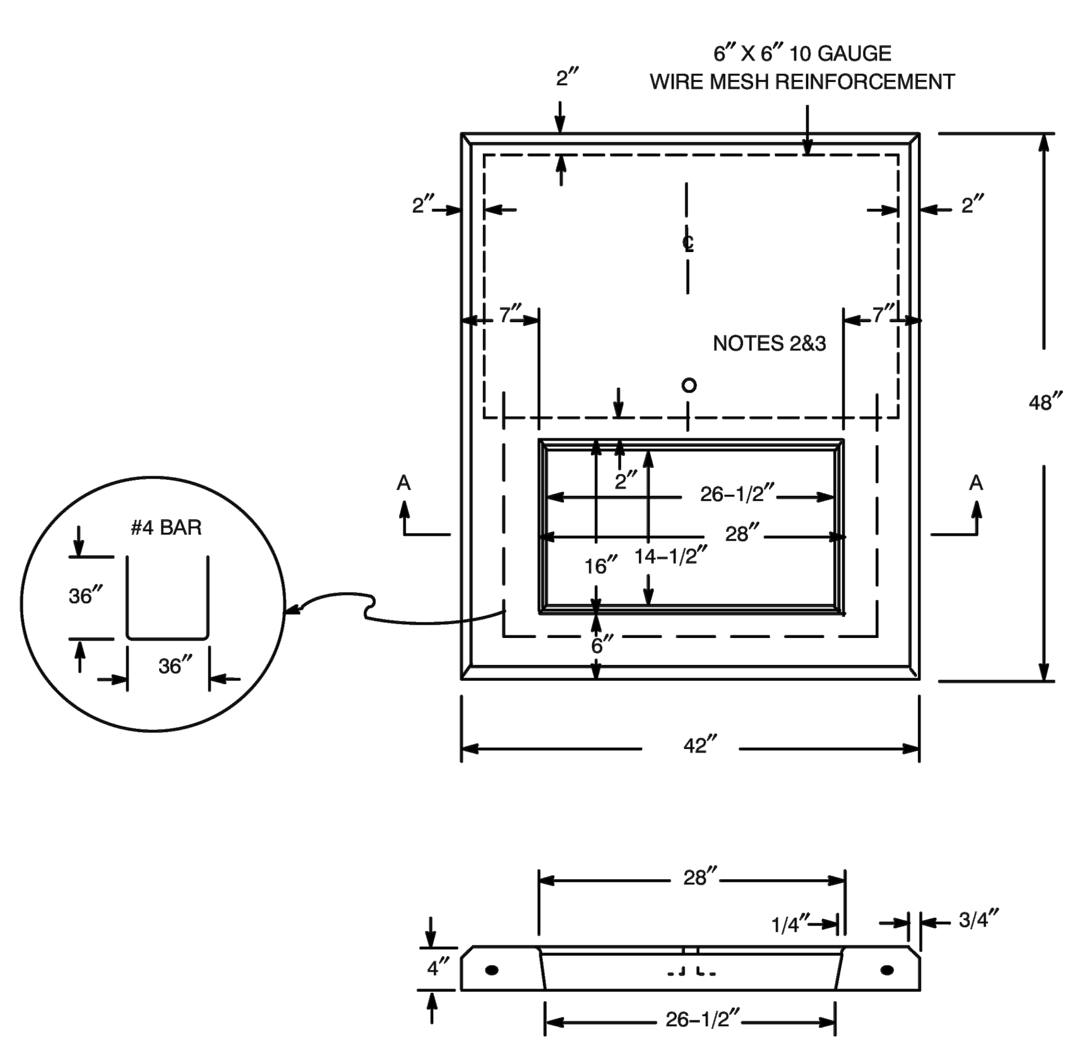


SECTION A–A

Notes

1. Install 36" D x 36" H round handhole, **SPC H–020**, and fiberglass cover, **SPC C–710**.
2. Install conduit, with all joints cemented, through knockout to 4 inches inside handhole. Terminate conduit run with end bell (e.g., **Item #500680** for 3–inch diameter). Conduit destination to be permanently marked on conduit end. Conduit shall be minimum 3–inch–diameter, Schedule 40 PVC. Limit four 4–inch–diameter conduits per knockout.
3. Gaps around conduit at knockout openings shall be sealed with cement mortar to prevent backfill from entering handhole.
4. Install a 1/4–inch–diameter nylon pull line in each duct, including 10 feet of slack, and secure to conduit plug (e.g., **Item #526340** for 3–inch diameter). Plugged conduit to be left accessible.
5. Install on virgin or well tamped gravel. Where poor soil exists, remove to 6 inches below bottom of handhole and backfill with compacted clean gravel, free of foreign matter and debris, and extending 12 inches past edge of structure. Remaining backfill shall not contain ashes, frozen material, debris or stones larger than 2 inches in maximum dimension.
6. When installing cable, utilize pulling eyelets provided in handhole.
7. Galvanized steel ground rods to be installed in trench adjacent to handhole. See **DTR 56.221**.
8. For loadbreak junction connector installation, refer to **DTR 50.111** for pad–mounted or **DTR 50.269** for submersible.

ORIGINAL 10/22/99 APPROVED 8/10/06	DIRECT–BURIED IN CONDUIT – INSTALLATION OF HANDHOLE SINGLE–PHASE CABLE – LOADBREAK JUNCTION CONNECTOR			
	EVERSOURCE ENERGY	CONSTRUCTION STANDARD	DTR 50.107	3



SECTION A–A

NOTES

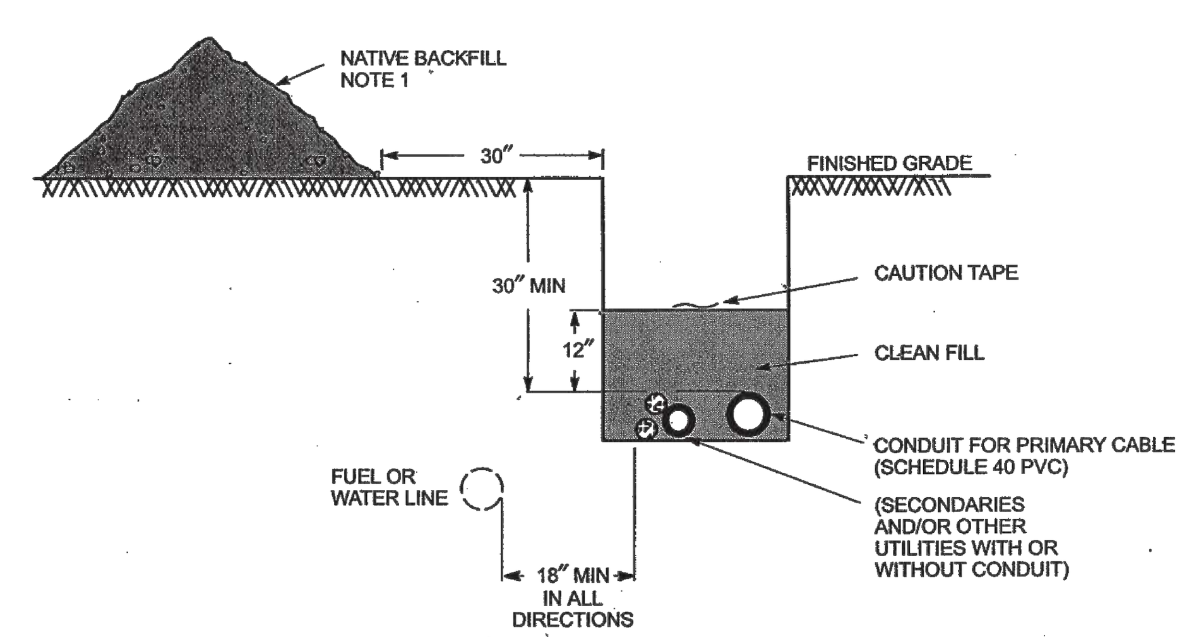
1. Final 28 day concrete strength to be 5000 psi.
2. A 3/4 inch coil loop insert (Dayton F63) with an insert locator plug (Dayton T21) for lifting the pad at the center of gravity with a swivel plate.
3. Manufacturer's identification and month/year when manufactured shall be legibly marked in/on concrete in the top near the center.
4. Concrete and concrete design shall be in accordance with ACI 318–1986.

ORIGINAL 4/23/70 APPROVED 8/1/91	PAD – PRECAST CONCRETE – TRANSFORMER 167 KVA MAXIMUM – 42" X 48" X 4"			
	EVERSOURCE ENERGY	MATERIAL SPECIFICATION	SPC P–009	11

SCOPE – All direct–buried primary cables shall be of the jacketed type. The cables may be random–laid with the secondaries and other utilities under certain conditions, detailed in **DTR 44.101**.

INSTALLATION IN TRENCH – All direct–buried cables shall be installed at a depth of at least 30 inches in the following order:

1. Ensure that the bottom of the trench is well–tamped and free of rocks.
2. Install the conduit, gluing all couplings.
3. Install secondaries and other utility cables or conduits in the trench.
4. Backfill with 12 inches clean fill not to contain stones larger than 2 inches in maximum diameter.
5. Install cable warning tape 12 inches over the conduit.
6. Fill in the remainder of the trench with native backfill.
7. Install pull line, including 10 feet of slack, and secure to conduit plug at each end of conduit run.



CROSS SECTION OF JOINT TRENCH

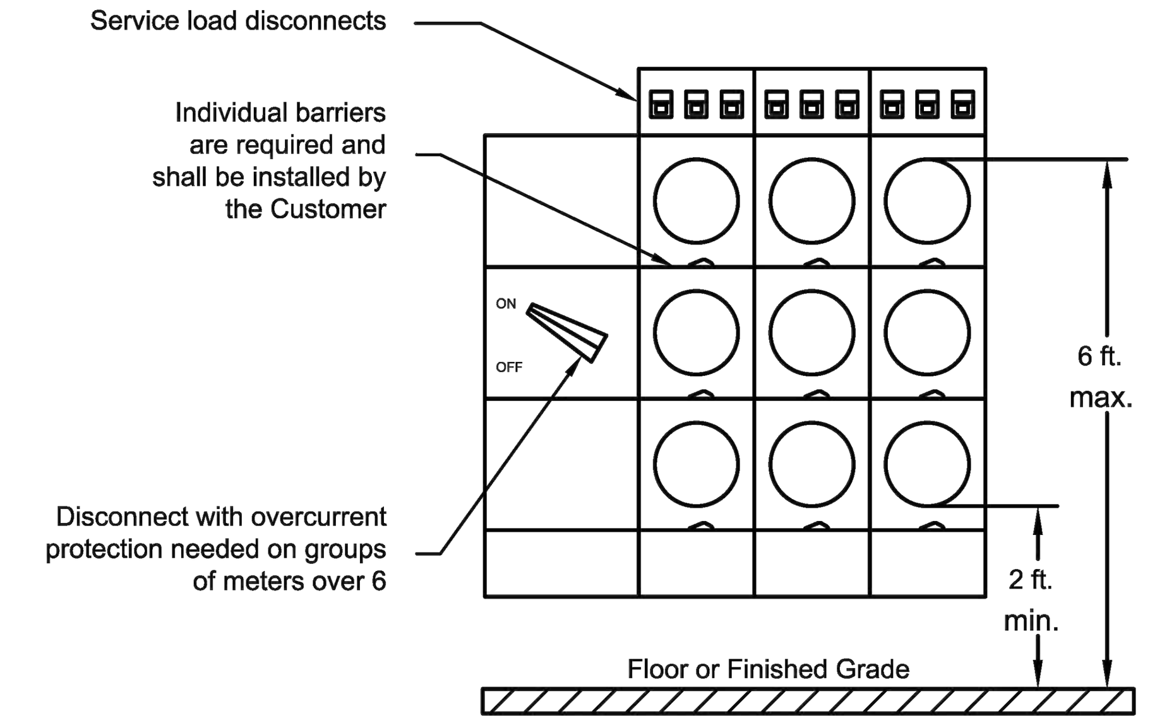
NOTE:
THIS DETAIL ALSO USED FOR SINGLE PHASE CONDUITS

Notes

1. The trench shall be backfilled immediately following placement of the conduit.
2. 1/4–inch–diameter nylon pull line and plastic conduit plugs to be supplied and installed by contractor.

ORIGINAL 6/24/98 APPROVED 12/18/00	THREE–PHASE PRIMARY CABLE INSTALLATION DIRECT–BURIED – IN CONDUIT (CT/MA)			
	NORTHEAST UTILITIES	CONSTRUCTION STANDARD	DTR 51.102	3

Modular Meter Panels For Group Metering



NOTES

1. Service load disconnects may be located above, below, or beside meter.
2. Individual meter sockets for meter packs require individual barriers to be purchased and installed by the Customer with provisions for seals and barrel locks.
3. For single and three phase 120/208 volt network and 277/480 volt services, the entire bank shall be cold sequenced.
4. When modular metering is 277/480 volts, each individual socket shall be cold sequenced.
5. Sketch of meter panel arrangements must be submitted to the Company for approval prior to layout and installation of equipment.
6. Refer to Metering for labeling requirements.
7. The grounding electrode conductor connection shall be made at an accessible location in the service equipment and not in the meter socket.
8. Bollards are required when there is a potential for damage by vehicles. Refer to Metering for required clearances.

NO.	DATE	DESCRIPTION

REVISIONS

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SCALE: NONE	DATE: September 5, 2025	JOB #: 2023.G04	SHEET: 6 OF 6

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