



Industrial Communications

SOUTH HADLEY, MA

**Industrial
Communications**

Engineering Division
40 Lone Street
Marshfield, MA 02050

CO-APPLICANT:



T-MOBILE NORTHEAST LLC
15 COMMERCE WAY
NORTON, MA 02766

CO-APPLICANT:



SPRINT
ONE INTERNATIONAL BLVD STE 800
MAHWAH, NJ 07495

SITE:

SOUTH HADLEY
MASSACHUSETTS
MA-10149

ADDRESS:

MAP 56 LOT 119
HADLEY STREET
SOUTH HADLEY, MA

PROJECT NO:

SITE - S.HADLEY MA-10149

DRAWN BY: RICK

SCALE: NONE

NO	DATE	ISSUE
0	1/15/18	1/15/18

SHEET TITLE

TITLE
SHEET

SHEET NUMBER

T

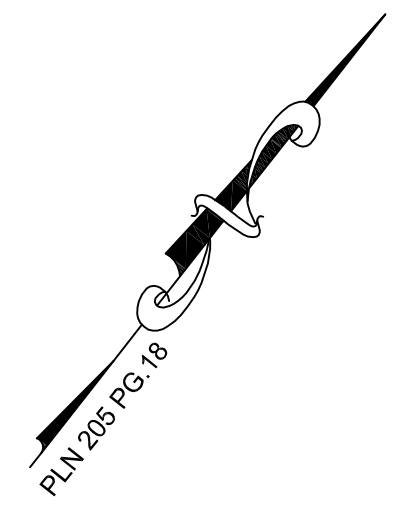


APPROVALS

TOWN OF SOUTH HADLEY PLANNING BOARD	
CHAIRMAN _____	DATE _____
MEMBER _____	DATE _____
MEMBER _____	DATE _____
MEMBER _____	DATE _____
MEMBER _____	DATE _____

SHEET INDEX

SHT NO.	TITLE	REV. NO.
T	TITLE SHEET	0
	EXISTING CONDITIONS PLAN R.A. FORESI ASSOCIATES	0
1	AERIAL OVERLAY	0
2	300' LOCUS PLAN	0
2.1	SITE PLAN	0
3	TOWER ELEVATION & DETAILS	0
4	SITE CONSTRUCTION DETAILS	0

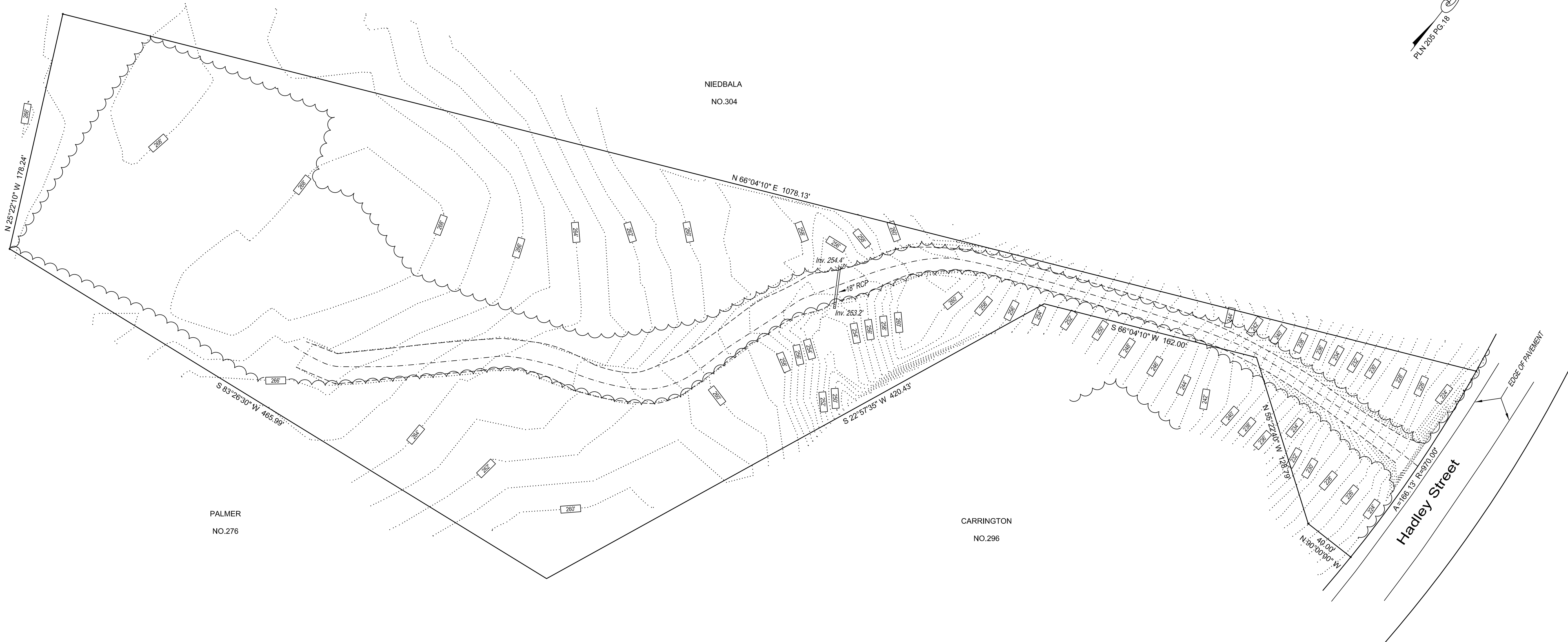


TOWN OF SOUTH HADLEY

NIEDBALA NO.304

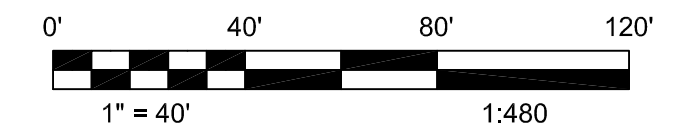
PALMER NO.276

CARRINGTON NO.296



ELEVATIONS NVAD88
ESTABLISHED BY
OPUS-RS OBSERVATION 12/07/17

PARCEL SHOWN
LOT B-7
H.C.R.D. PLAN 205 PG. 18
4.2387 ACRES



- IRON PIN FOUND
- - - - - EDGE OF GRAVEL ROAD +/-
- - - - - CENTERLINE OF TRAVELED RD. +/-
- ~ ~ ~ ~ ~ APPROXIMATE EDGE OF WOODS

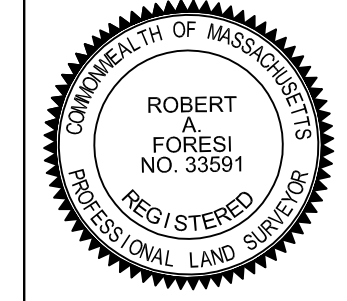
OWNERS LOT B-7
ADAM QUENNEVILLE
AND
REBECCA ARROYO

Existing Conditions Plan
Lot B-7 Hadley St., South Hadley, MA

For: Industrial Communications
40 Lone Street
Marshfield, MA 02050

DECEMBER 14, 2017

SCALE 1" = 40'



R.A. FORESI Associates
REGISTERED LAND SURVEYORS
WEST SPRINGFIELD, MA

CO-APPLICANT:



T-MOBILE NORTHEAST LLC
15 COMMERCE WAY
NORTON, MA 02766

CO-APPLICANT:



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SITE:

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MA-10149**

ADDRESS:

**MAP 56 LOT 119
HADLEY STREET
SOUTH HADLEY MA**

LEGEND:

- X 50.0 PROPOSED SPOT GRADE
- 50--- EXISTING CONTOUR
- 50- PROPOSED CONTOUR
- TREE CANOPY LINE
- ⊕ EXISTING UTILITY POLE
- ⊙ PROPOSED UTILITY POLE
- ○ ○ EXISTING STONE WALL
- - - SETBACK LINE
- ex - EXIST. UNDGRD. UTILITIES
- - - PROP. UNDGRD. UTILITIES

PROJECT NO:

SITE-S.HADLEY MA-10149

DRAWN BY: RICK

SCALE: 1"=40'

NO	DATE	ISSUE
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PROJECT TITLE

**PROPOSED
COMMUNICATIONS
FACILITY**
HADLEY STREET
SOUTH HADLEY
MASSACHUSETTS
MAP 56 - LOT 119

SHEET TITLE

**AERIAL
OVERLAY**

SHEET NUMBER

1



**MAP 56 LOT 119
AREA=184,643.2± S.F.
4.2± ACRES**

**MAP 56 LOT 95
N/F
SHARON & JAMES NIEDBALA
P.O. BOX 495
SOUTH HADLEY, MA**

**MAP 56 LOT 96
N/F
ARTHUR & MARRIA CARRINGTON
296 HADLEY STREET
SOUTH HADLEY, MA**

**MAP 56 LOT 102
N/F
STANLEY & BARBARA PALMER
276 HADLEY STREET
SOUTH HADLEY, MA**

**MAP 53 LOT 1
N/F
TOWN OF SOUTH HADLEY
CONSERVATION COMMISSION
116 MAIN STREET
SOUTH HADLEY, MA**

APPLICANT
INDUSTRIAL TOWER & WIRELESS
40 LONE STREET
MARSHFIELD, MA 02050

OWNER
ADAM A. QUENNEVILLE
121 AMHERST ROAD
SOUTH HADLEY, MA 01075

ASSESSORS REFERENCE: MAP 56
LOT 119

ZONING REFERENCE: AGRICULTURAL

- MIN. LOT FRONTAGE: 150 FT.
- MIN. FRONT YARD DEPTH: 40 FT.
- MIN. SIDE YARD DEPTH: 20 FT.
- MIN. REAR YARD DEPTH: 25 FT.
- MIN. YARD AREA: 30,000 S.F.



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MAP 56 LOT 119
HADLEY STREET
SOUTH HADLEY MA

PROJECT NO:
SITE -S.HADLEY MA-10149
DRAWN BY: RICK
SCALE: 1"=125'

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PROJECT TITLE

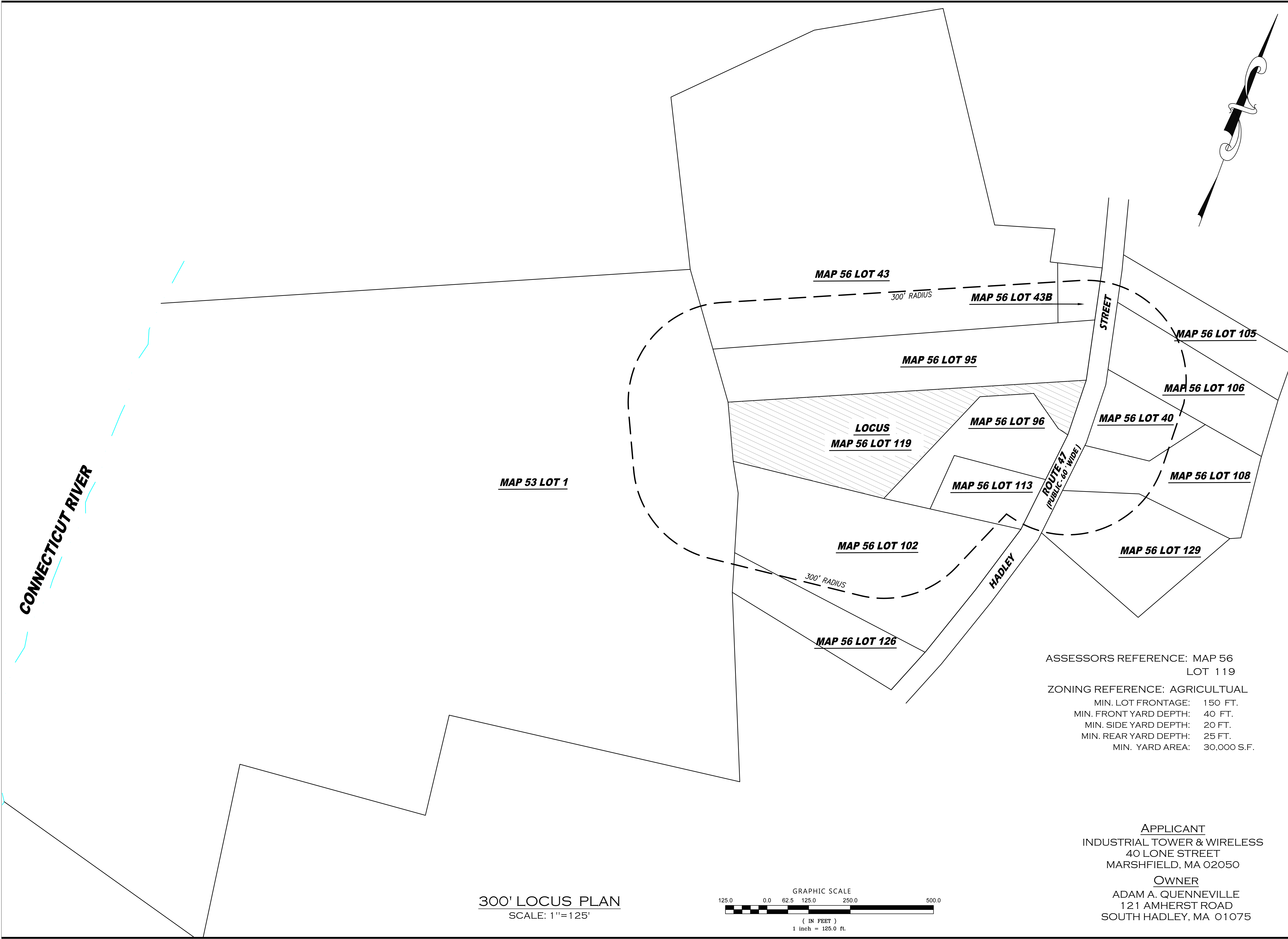
PROPOSED COMMUNICATIONS FACILITY
HADLEY STREET
SOUTH HADLEY
MASSACHUSETTS
MAP 56 - LOT 119

SHEET TITLE

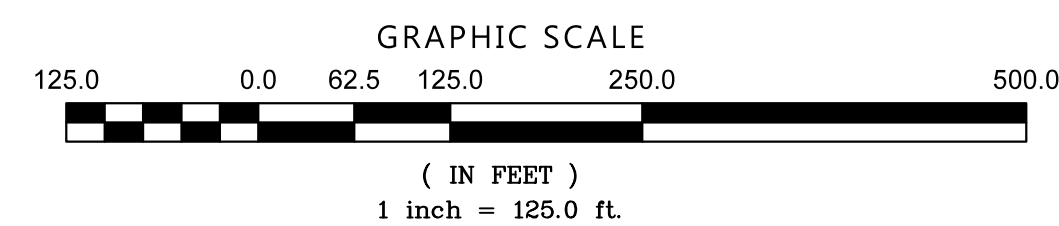
300' LOCUS PLAN

SHEET NUMBER

2



300' LOCUS PLAN
SCALE: 1"=125'



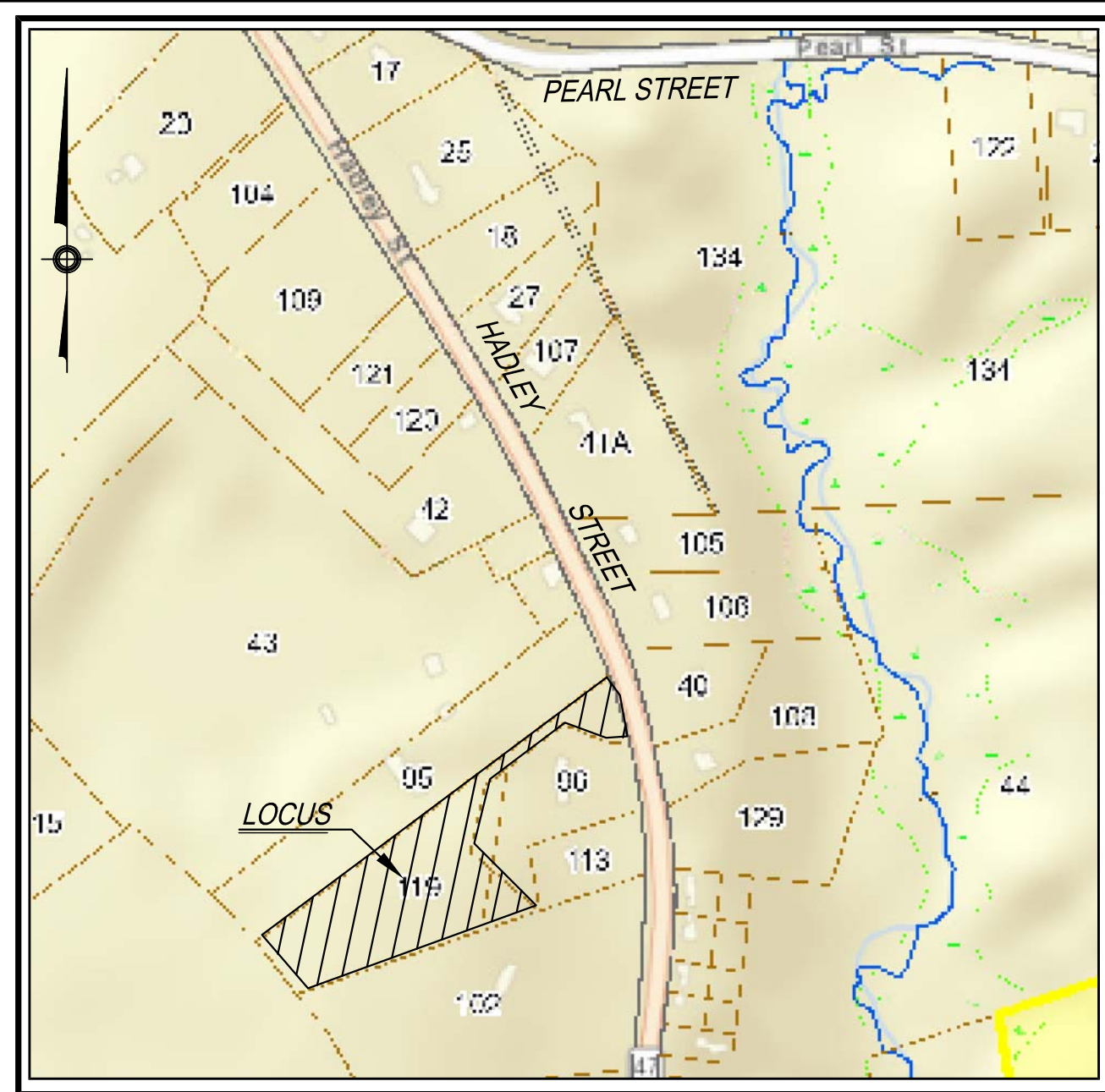
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LOT 119

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OWNER
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SOUTH HADLEY, MA 01075



LOCUS PLAN
1"=400'

NOTES:

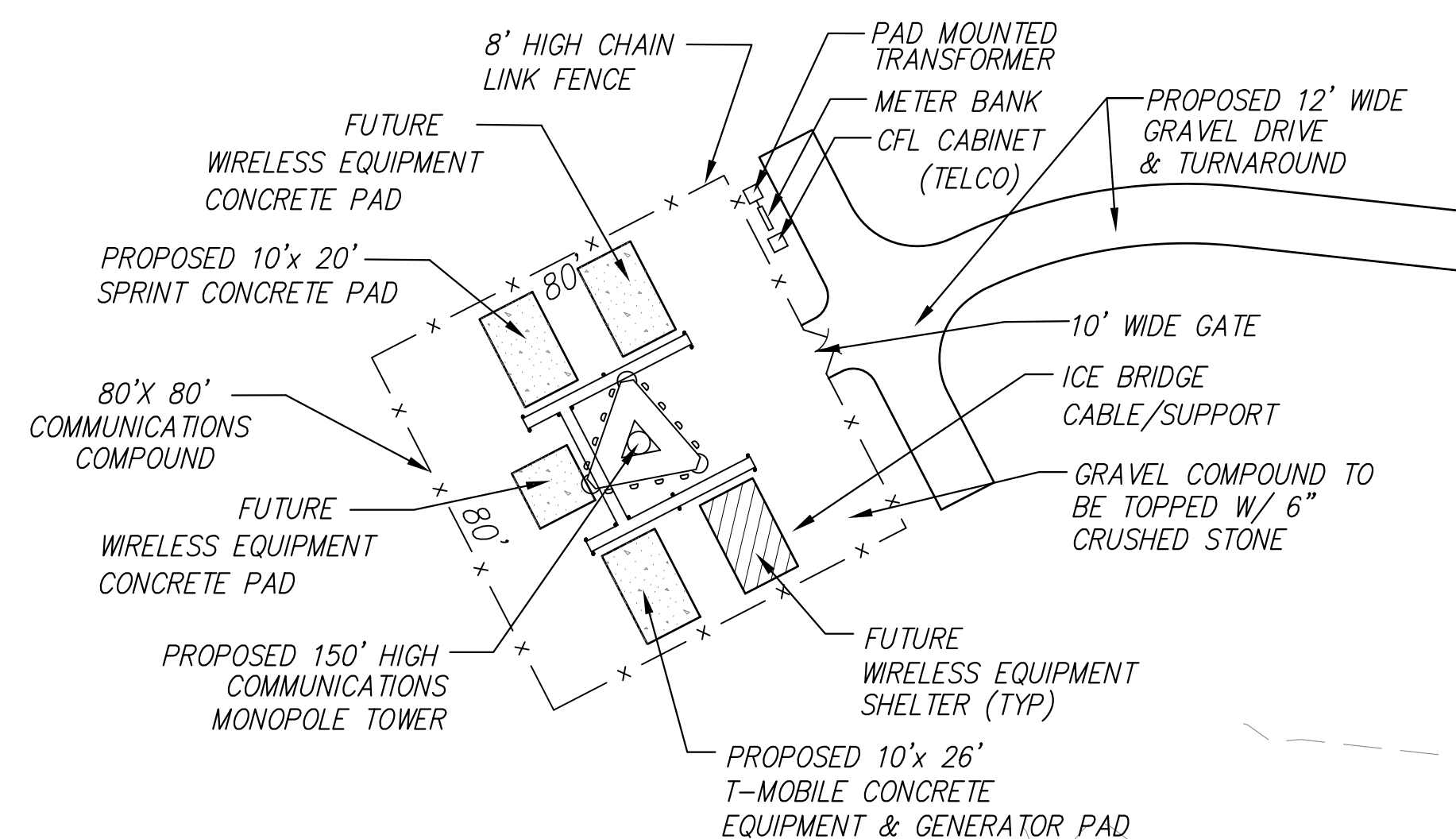
1. SITE FALLS IN ZONE "C" AS SHOWN ON THE FLOOD INSURANCE RATE MAP FOR THE TOWN OF SOUTH HADLEY MASSACHUSETTS HAMPSHIRE COUNTY PANEL 5 OF 10 MAP NUMBER 2501700005A EFFECTIVE DATE AUGUST 15, 1979.
2. ABUTTERS SHOWN ARE TAKEN FROM THE TOWN OF SOUTH HADLEY MA MOST RECENT TAX PLATS AND RECORDED PLANS.
3. EASEMENTS, RIGHTS AND RESTRICTIONS DEPICTED HEREON ARE THOSE WHICH WERE FOUND DURING RESEARCH COMPLETED AT THE TOWN OF SOUTH HADLEY TOWN HALL AND HAMPSHIRE COUNTY REGISTRY OF DEEDS.
4. UTILITIES SHOWN ARE APPROXIMATE ONLY AS EVIDENCED BY ON-SITE OBSERVATIONS AND RECORD EVIDENCE. ADDITIONAL UNDERGROUND UTILITIES EXIST. PRIOR TO ANY CONSTRUCTION ACTIVITY CONTACT DIG-SAFE AT (800) 225-4977 FOR MORE PRECISE LOCATIONS.
5. THE AREAS OF THE PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE EQUIPMENT, DRIVEWAY, OR GRAVEL, SHALL BE GRADE TO A UNIFORM SLOPE, FERTILIZED AND SEEDED OR COVERED BY MULCH.
6. ANY AND ALL STUMPS AND BRUSH THAT ARE DERIVED FROM THE CONSTRUCTION OF THE PROPOSED WORK ARE TO BE REMOVED FROM THE SITE AND ARE TO BE DISPOSED OF PROPERLY.
7. A 8.5"x 11" IDENTIFICATION SIGN, A 12"x 18" NO TRESSPASSING SIGN, ALONG WITH A 12"x 18" "RF" NOTICE ARE TO BE MOUNTED ON THE DRIVEWAY GATE. ALSO THERE WILL BE A 8.5"x 11" IDENTIFICATION SIGN WHICH INCLUDES THE WARNING THAT "ONLY ITW PERSONEL ARE AUTHORIZED TO WORK ON THIS TOWER" A 12"x 18" RF CAUTION SIGN MOUNTED ON THE COMPOUND FENCE.
8. THERE WILL BE A TOWER REMOVAL BOND PROVIDED FOR THIS PROJECT.
9. THIS PLAN WAS PREPARED BY AN ON THE GROUND TOPOGRAPHY SURVEY ON DECEMBER 14, 2017 BY R.A. FORESI ASSOCIATES ALONG WITH THE PLANS REFERENCED.

PLAN REFERENCES:

1. PLAN ENTITLED "PLAN OF LAND SOUTH HADLEY, MA DIVISION OF LAND OF ADAM & REBECCA QUENNEVILLE, OWNERS"; DATED APRIL 12, 2005; PREPARED BY R.A. FORESI ASSOCIATES; RECORDED AT THE HAMPSHIRE COUNTY REGISTRY OF DEEDS AS PLAN BOOK 205 PAGE 18.

DEED REFERENCES:

2. HAMPSHIRE COUNTY REGISTRY OF DEEDS AS BOOK 8027 PAGE 26.



COMPOUND DETAIL
SCALE: NONE

MAP 56 LOT 119
AREA=184,643.2± S.F.
4.2± ACRES

MAP 53 LOT 1
N/F
TOWN OF SOUTH HADLEY
CONSERVATION COMMISSION
116 MAIN STREET
SOUTH HADLEY, MA

MAP 56 LOT 102
N/F
STANLEY & BARBARA PALMER
276 HADLEY STREET
SOUTH HADLEY, MA

MAP 56 LOT 95
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SHARON & JAMES NIEDBALA
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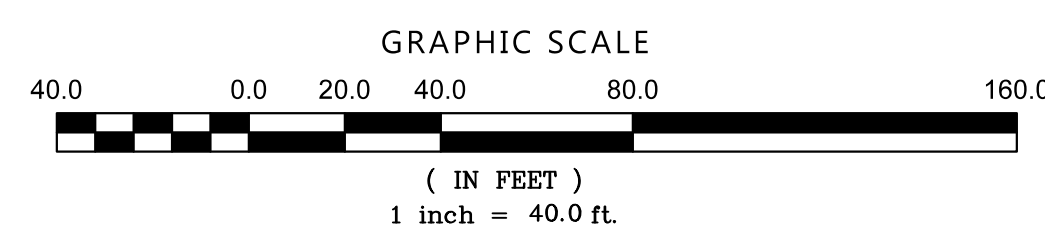
MAP 56 LOT 96
N/F
ARTHUR & MARRIA CARRINGTON
296 HADLEY STREET
SOUTH HADLEY, MA

ASSESSORS REFERENCE: MAP 56 LOT 119
ZONING REFERENCE: AGRICULTURAL
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OWNER
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121 AMHERST ROAD
SOUTH HADLEY, MA 01075

NRCS SOILS LEGEND:
SOURCE: USDA NRCS WEB SOIL SURVEY

254C	MERRIMAC FINE SANDY LOAM, 8-15% SLOPES
254B	MERRIMAC FINE SANDY LOAM, 3-8% SLOPES
225A	BELGRADE SILT LOAM, 0-3% SLOPES



SITE PLAN
SCALE: 1"=40'

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Mobile

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NORTON, MA 02766

CO-APPLICANT:
Sprint

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MASSACHUSETTS
MA-10149

ADDRESS:
MAP 56 LOT 119
HADLEY STREET
SOUTH HADLEY MA

LEGEND:

- (268.5) PROPOSED SPOT GRADE
- 50 --- EXISTING CONTOUR
- 50 - PROPOSED CONTOUR
- TREE CANOPY LINE
- EXISTING UTILITY POLE
- PROPOSED UTILITY POLE
- EXISTING STONE WALL
- - - SETBACK LINE
- ex - EXIST. UNDGRD. UTILITIES
- - - PROP. UNDGRD. UTILITIES
- TEMP EROSION CONTROL

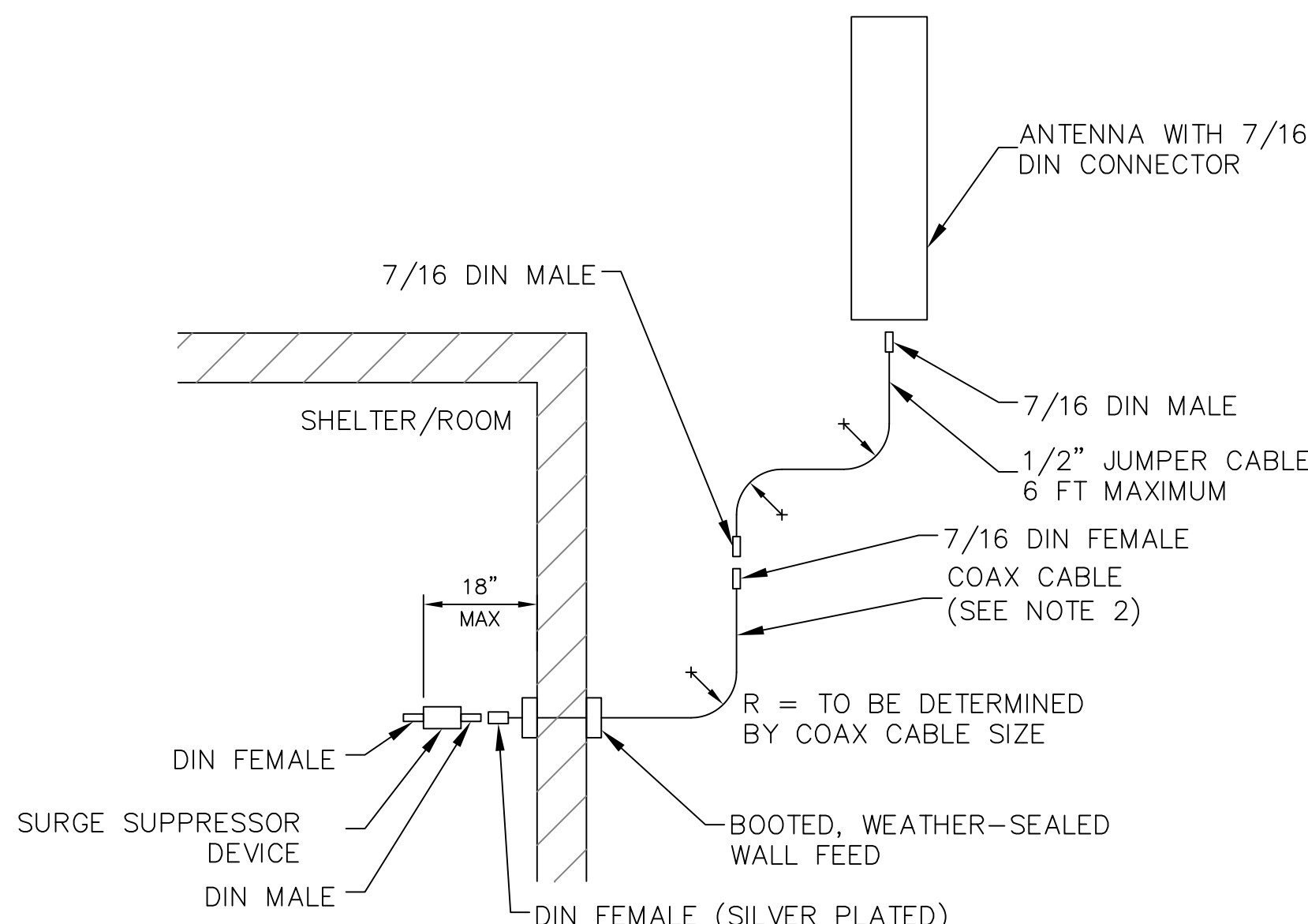
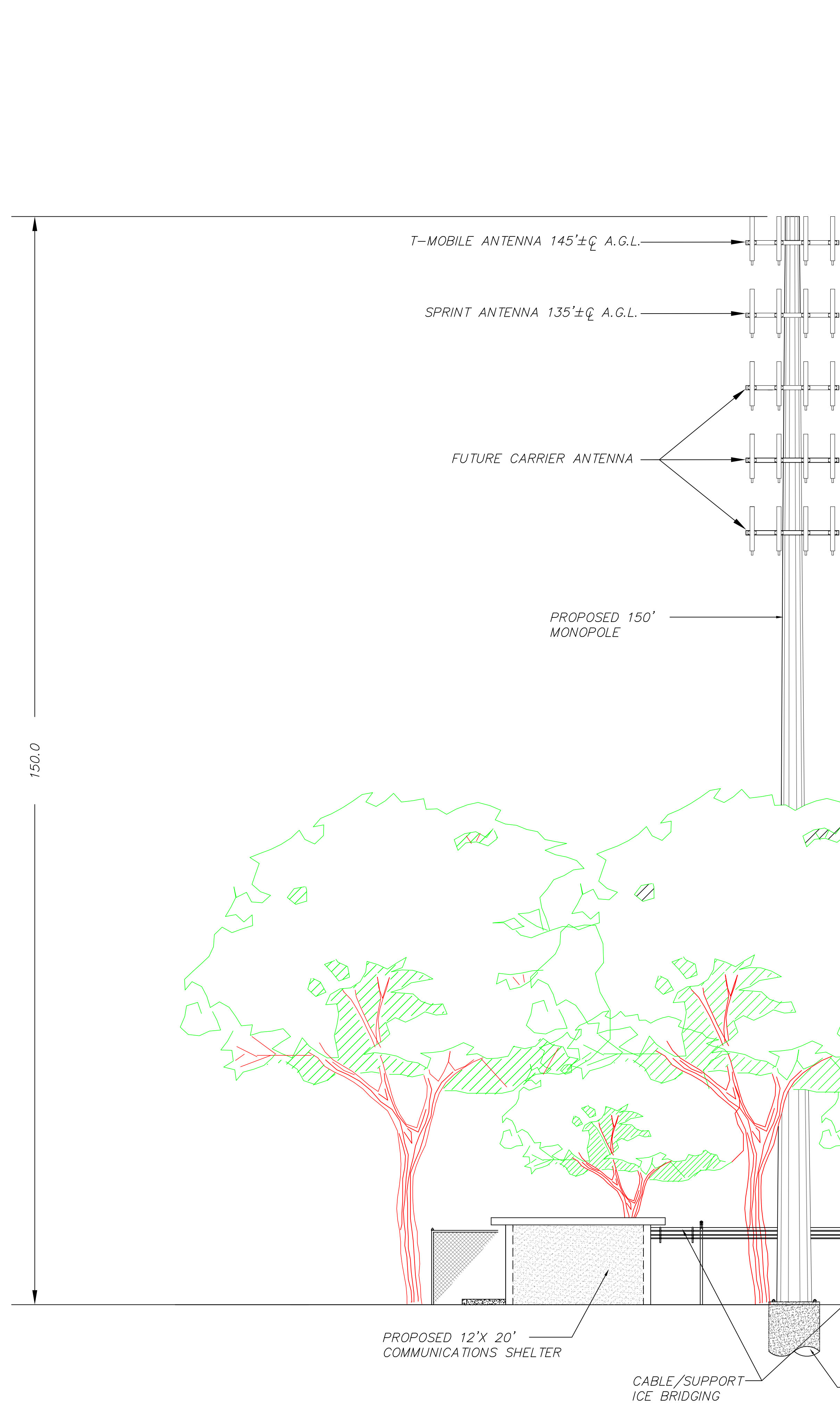
PROJECT NO:
SITE -S.HADLEY MA-10149
DRAWN BY: RICK
SCALE: 1"=40'

NO	DATE	ISSUE
0	12/19/17	12/19/17

PROJECT TITLE
PROPOSED
COMMUNICATIONS
FACILITY
HADLEY STREET
SOUTH HADLEY
MASSACHUSETTS
MAP 56 - LOT 119

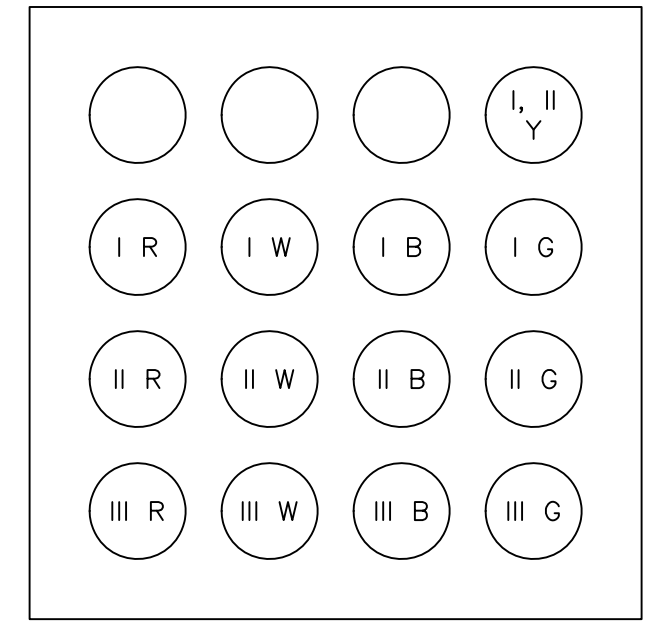
SHEET TITLE
SITE PLAN

SHEET NUMBER
2.1



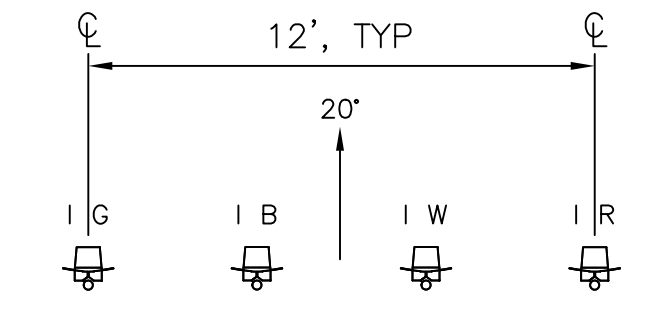
TYPICAL ANTENNA SCHEMATIC 4
3
NOT TO SCALE

COAX PORT ASSIGNMENTS
(VIEWED FROM INSIDE EQUIPMENT ROOM/SHELTER)

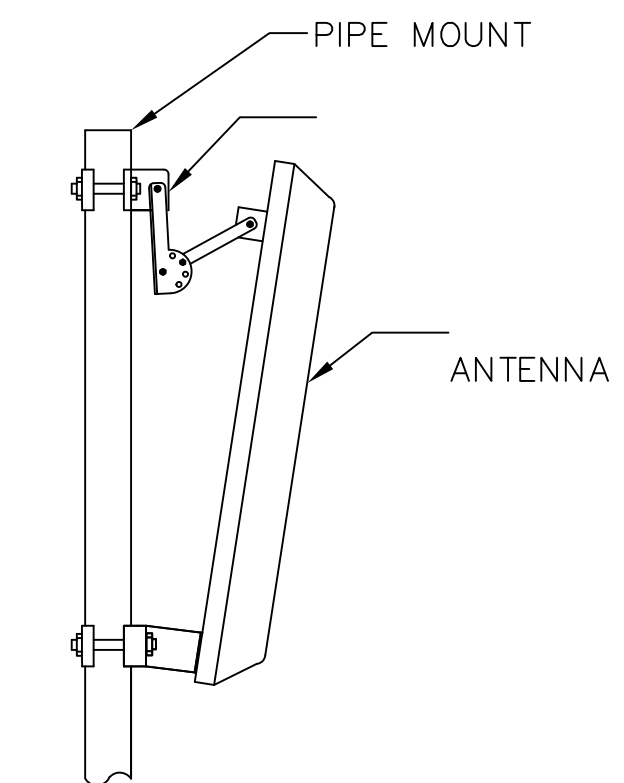


COLOR KEY

R - RED	B - BLUE
W - WHITE	G - GREEN
Y - YELLOW (GPS)	



COAX PORT ASSIGNMENTS 3
3
(VIEWED FROM INSIDE EQUIPMENT ROOM/SHELTER)



MOUNT ANTENNA IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDED PROCEDURE

ANTENNA W/ DOWN-TILT 2
3
NOT TO SCALE

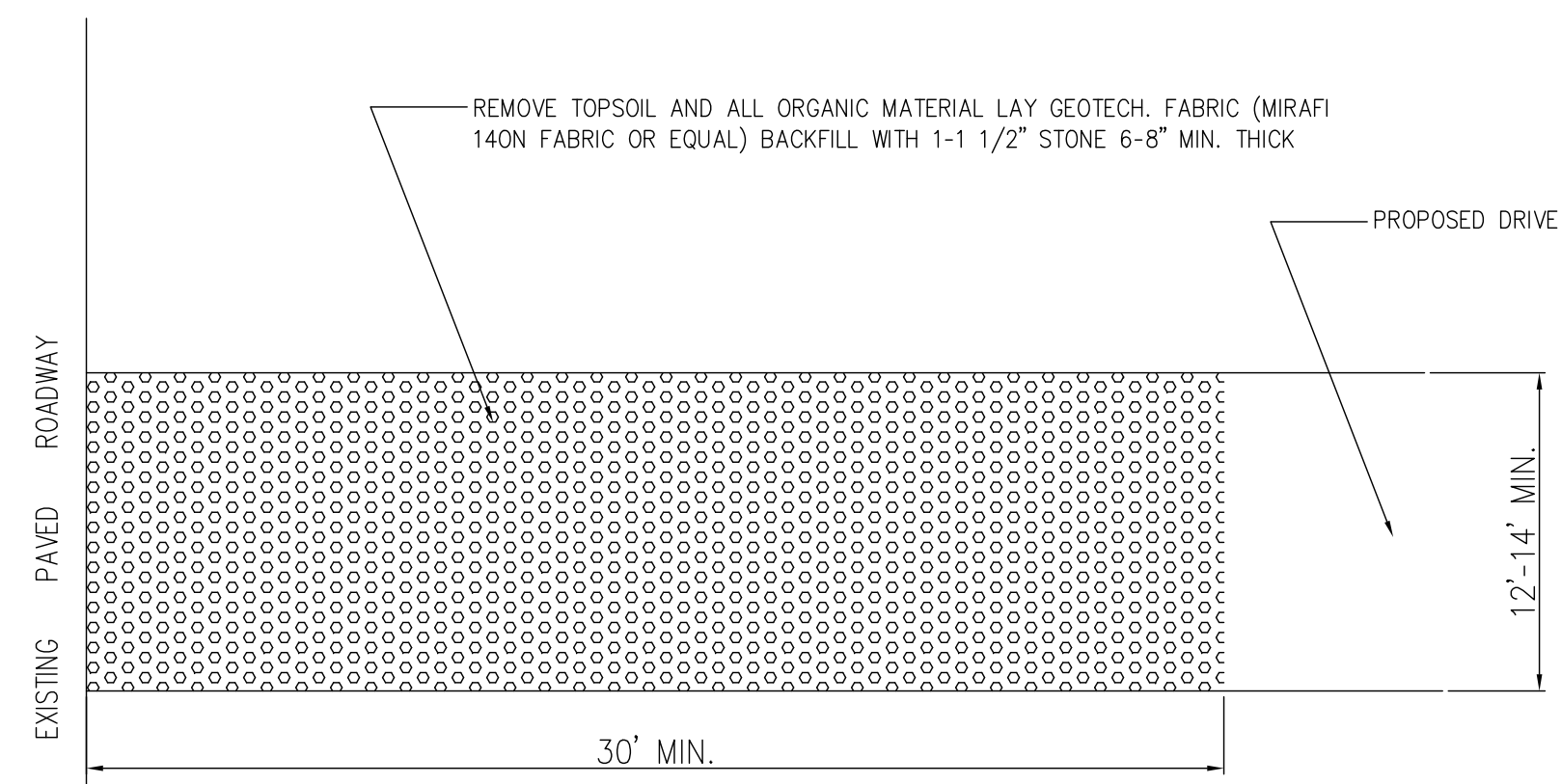
NOTES

- COAX CABLE SIZE WILL BE DETERMINED BY RF ENGINEER. REFER TO RF SCHEDULE FOR CABLE SIZE, MANUFACTURER, AND COLOR-CODING.
- COLOR-CODE COAXIAL CABLE:
 - AT TOP, JUST ABOVE GROUND KIT, 2" WIDE TO BE VISIBLE FROM THE GROUND
 - AT BOTTOM, JUST OUTSIDE COAX PORT
 - INSIDE EQUIPMENT ROOM/ENCLOSURE
 - AT ALL WALL/FLOOR PENETRATIONS
- RADIUS 'R' SHALL BE EQUAL TO OR GREATER THAN MANUFACTURER'S RECOMMENDATION.

TOWER ELEVATION 1
3
NOT TO SCALE

*THE TOWER SHOWN IS FOR PICTORIAL PURPOSES ONLY. THE FINAL TOWER & TOWER FOUNDATION PLANS WILL BE PROVIDED BY THE TOWER MANUFACTURER

NO	DATE	ISSUE
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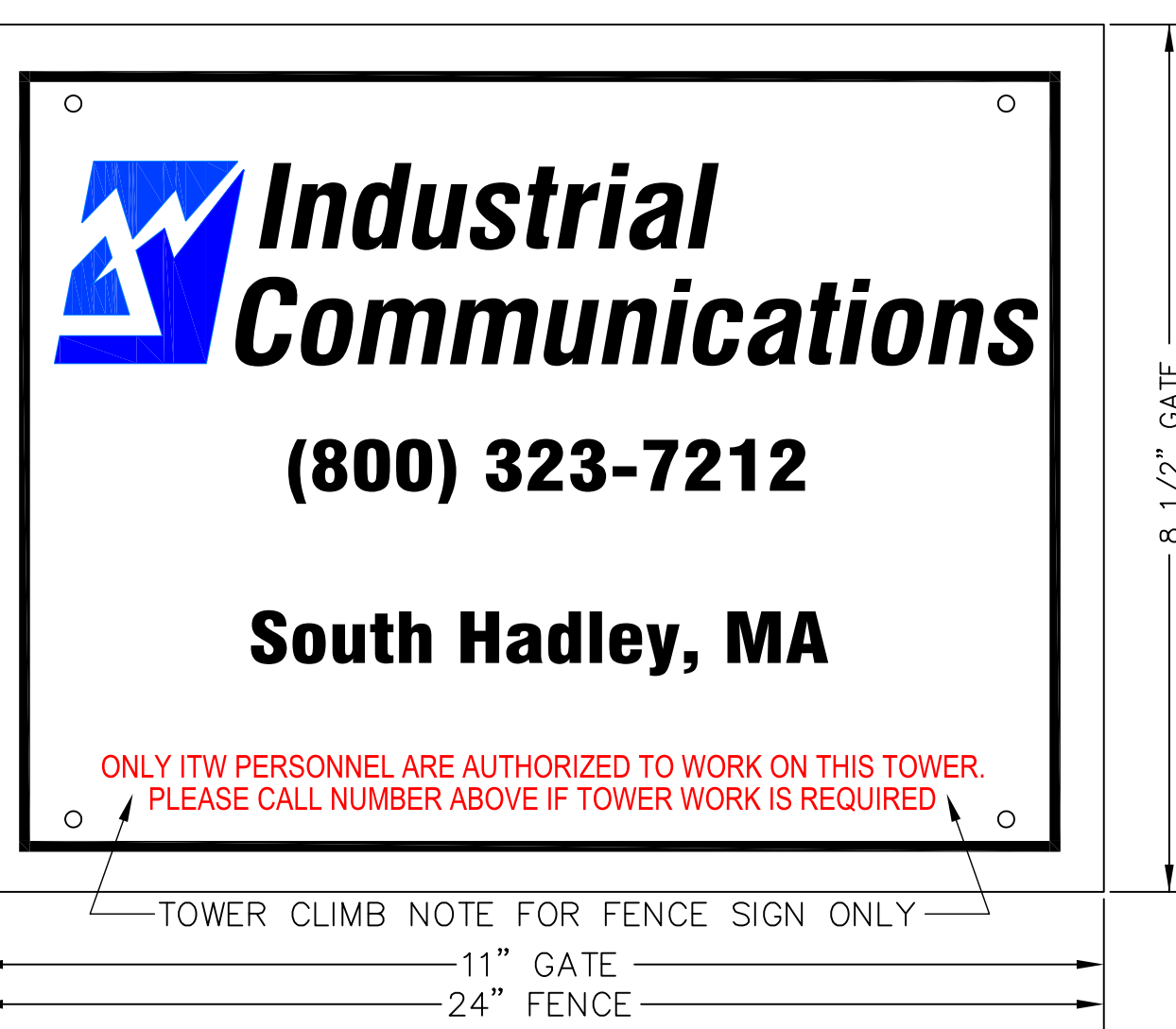
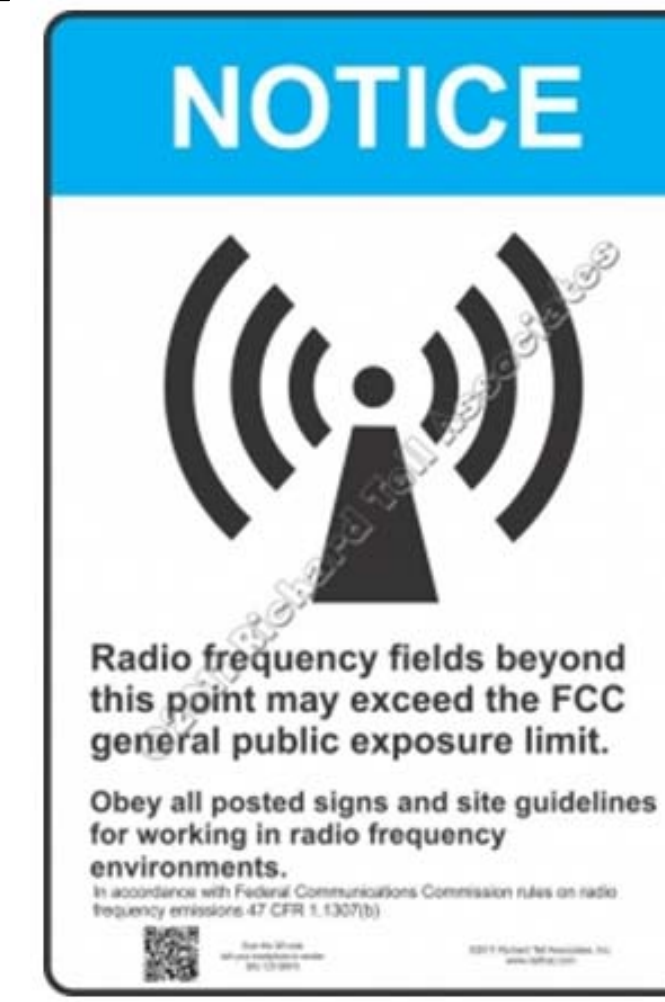
**TEMPORARY CONSTRUCTION
ENTRANCE/EXIT DETAIL**
N.T.S.



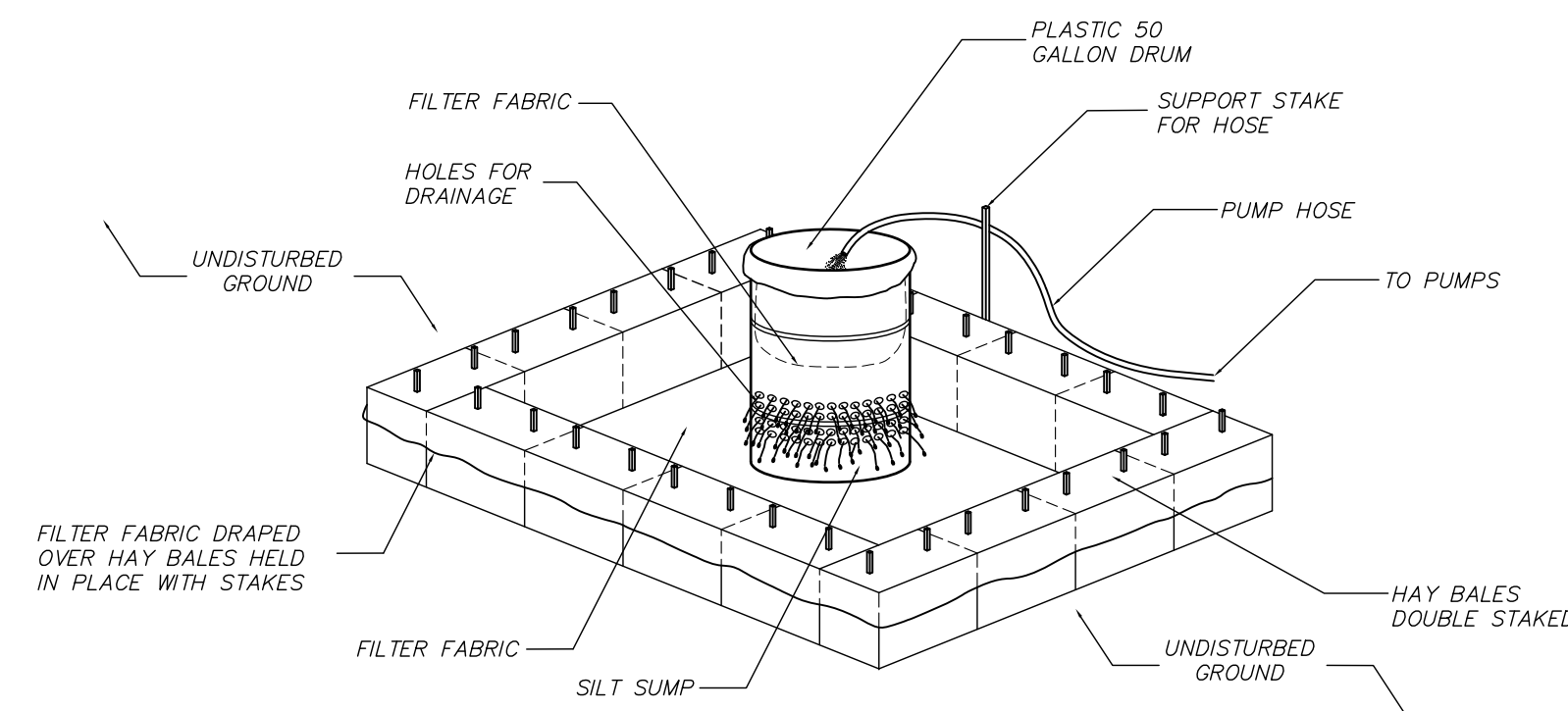
NO TRESPASSING SIGN DETAIL
N.T.S.



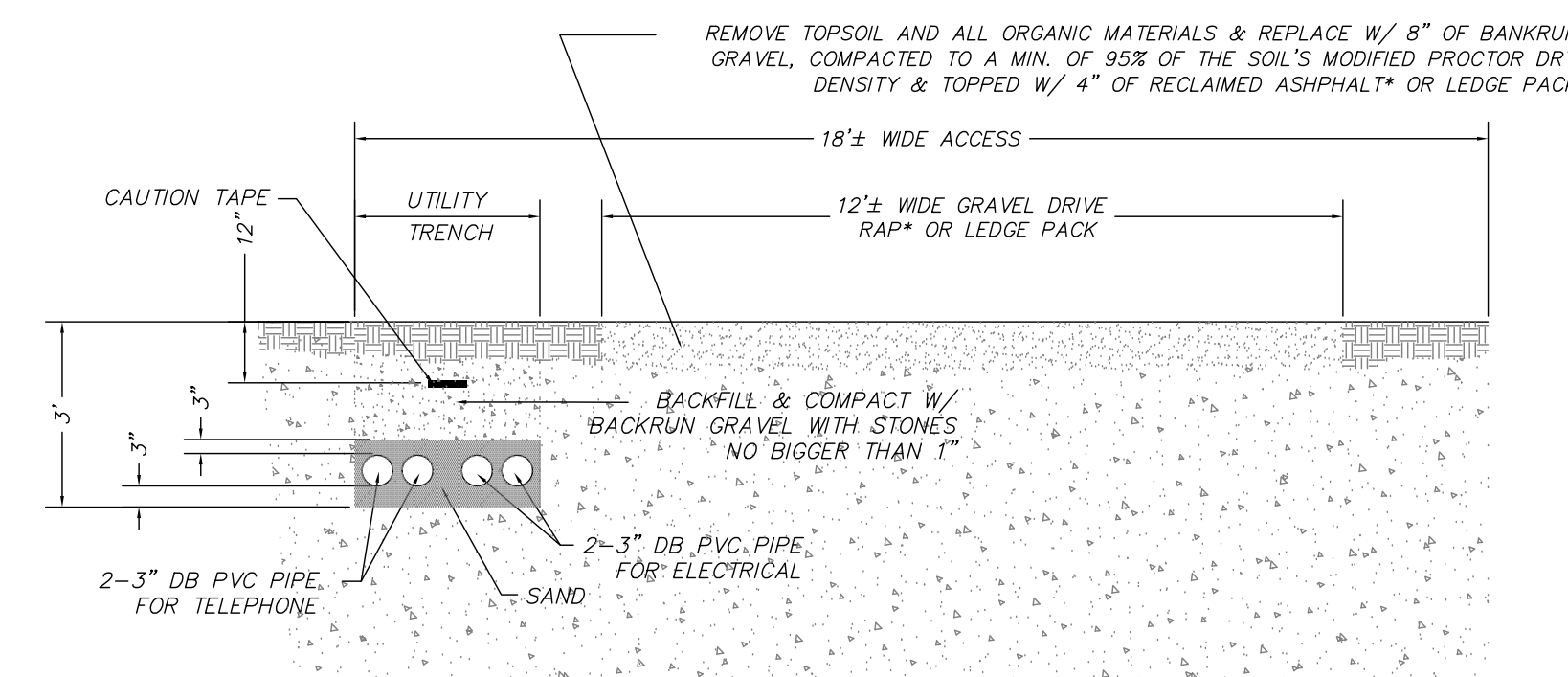
RF WARNING SIGN DETAIL
N.T.S.



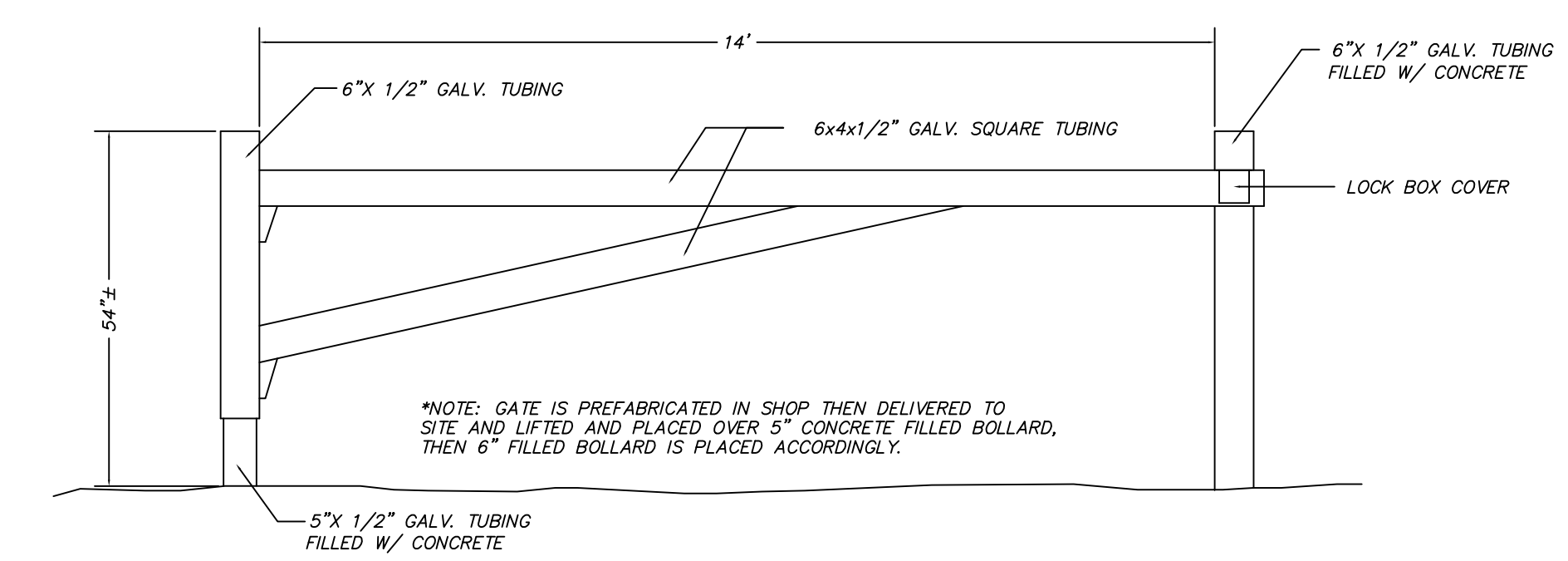
IDENTIFICATION SIGN DETAIL
N.T.S.



TYP. DEWATERING BASIN
N.T.S.



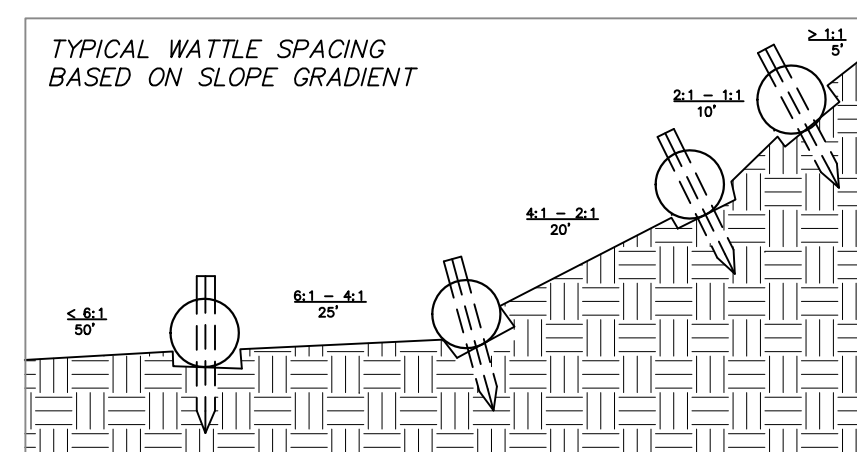
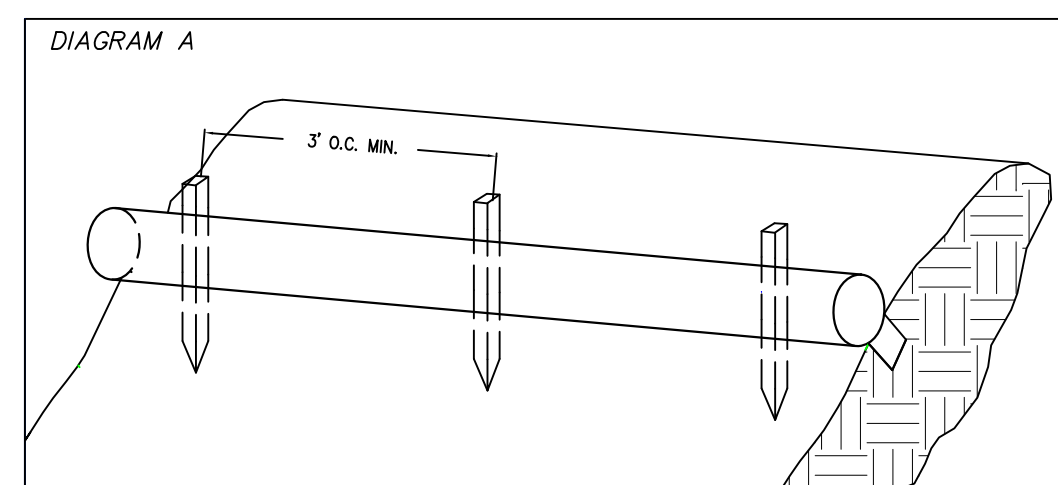
TYPICAL DRIVE & UTILITY CROSS SECTION
N.T.S.



SECURITY GATE DETAIL
N.T.S.



STRAW WATTLE INSTALLATION GUIDE



1. BEGIN AT THE LOCATION WHERE THE WATTLE IS TO BE INSTALLED BY EXCAVATING A 2-3" DEEP X 9" WIDE TRENCH ALONG THE CONTOUR OF THE SLOPE. EXCAVATED SOIL SHOULD BE PLACED UP-SLOPE FROM THE ANCHOR TRENCH.

1. PLACE THE WATTLE IN THE TRENCH SO THAT IT CONTOURS TO THE SOIL SURFACE. COMPACT SOIL FROM THE EXCAVATED TRENCH AGAINST THE WATTLE ON THE UPHILL SIDE. ADJACENT WATTLES SHOULD TIGHTLY ABUT.
3. SECURE THE WATTLE WITH 18-24" STAKES EVERY 3-4' AND WITH A STAKE ON EACH END. STAKES SHOULD BE DRIVEN THROUGH THE MIDDLE OF THE WATTLE LEAVING AT LEAST 2-3" OF STAKE EXTENDING ABOVE THE WATTLE. STAKES SHOULD BE DRIVEN PERPENDICULAR TO THE SLOPE FACE.

CRITICAL POINTS

- A. OVERLAPS AND SEAMS
- B. PROJECTED WATER LINE
- C. CHANNEL BOTTOM/SIDE SLOPE VERTICES

NOTE

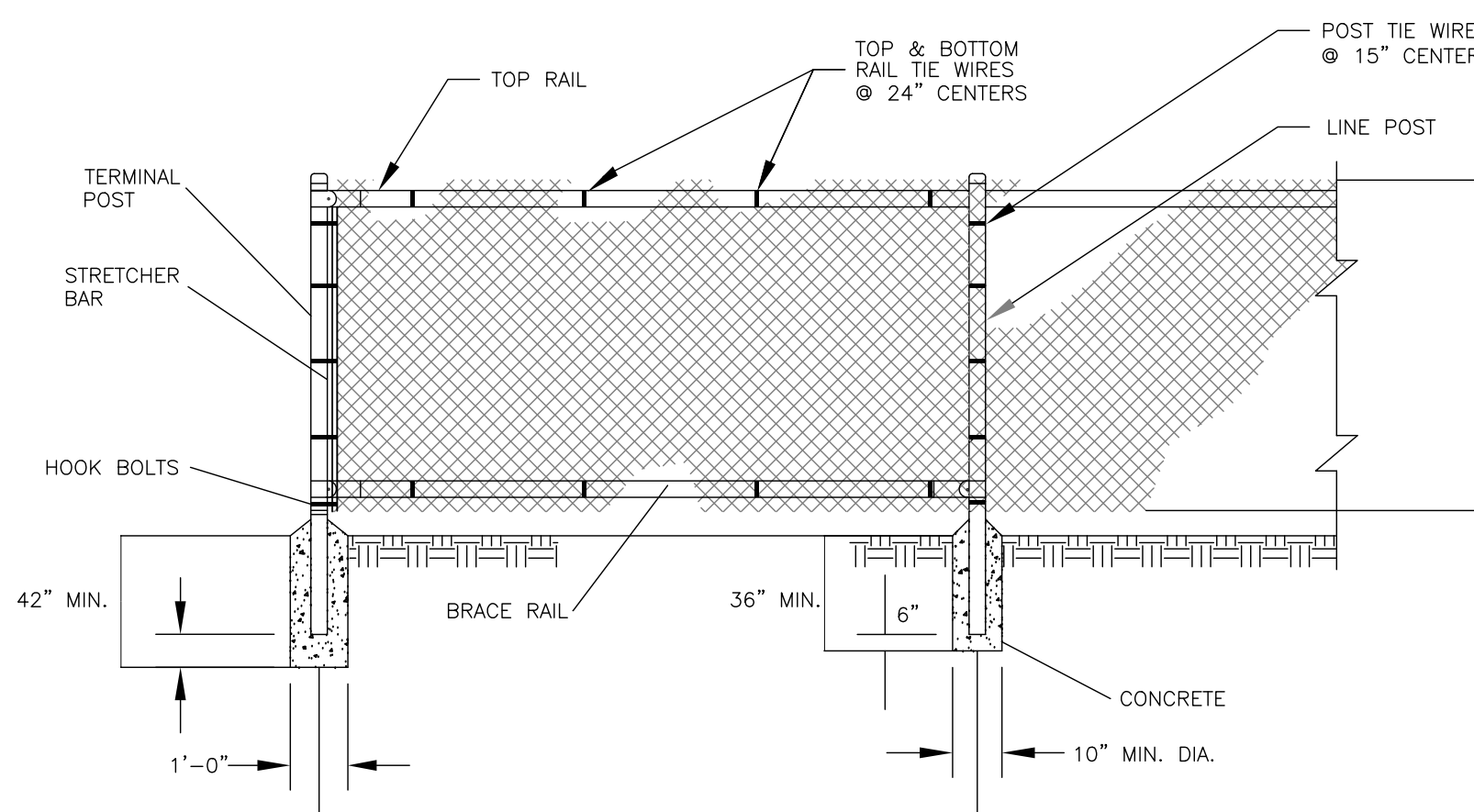
* HORIZONTAL STAPLE SPACING SHOULD BE ALTERED IF NECESSARY TO ALLOW STAPLES TO SECURE THE CRITICAL POINTS ALONG THE CHANNEL SURFACE.
** IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS IN EXCESS OF 6" (15 CM) MAY BE NECESSARY TO PROPERLY ANCHOR THE BLANKETS.

**SILTATION BARRIER
DETAIL**

* (Reclaimed asphalt pavement (RAP) is the term given to removed and/or reprocessed pavement materials containing asphalt and aggregates. These materials are generated when asphalt pavements are removed for reconstruction, resurfacing, or to obtain access to buried utilities. When properly crushed and screened, RAP consists of high-quality, well-graded aggregates.)

NOTE:

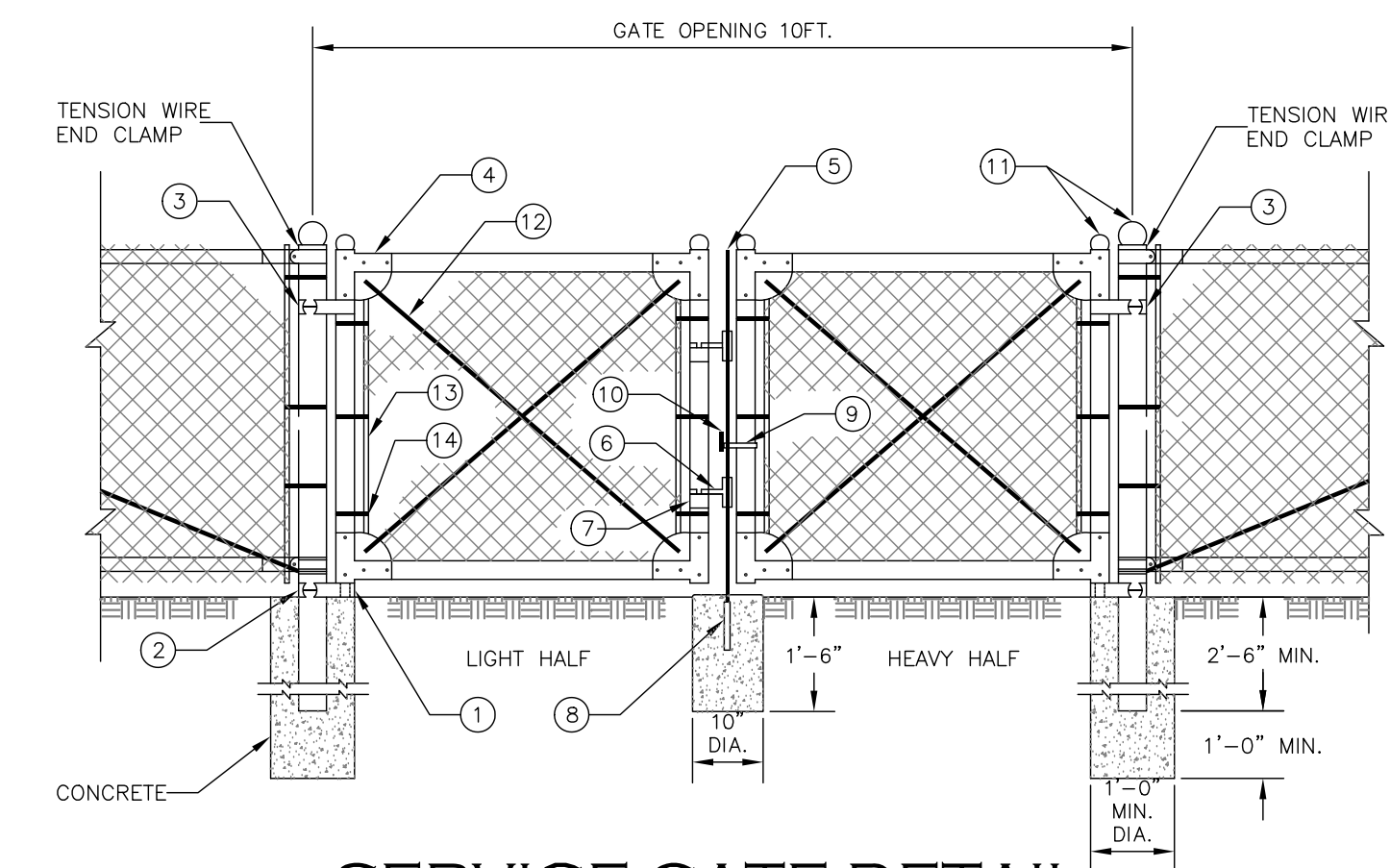
THE ACCESS ROAD SHALL BE INSPECTED & MAINTAINED AS FREQUENTLY AS POSSIBLE TO ASSURE CONTINUED ACCESS.



FENCE DETAILS
N.T.S.

CONSTRUCTION NOTES

1. MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE MANUFACTURER'S SPECIFICATIONS.
2. ALL POSTS SHALL BE INSTALLED VERTICALLY. WHERE POSTS ARE INSTALLED ON AN INCLINED SURFACE, THE ANGLE OF THE POST SHALL BE ADJUSTED SO THAT THE POST WILL BE VERTICAL.
3. THE FENCING SHALL BE #9 GAGE FENCE FABRIC, STANDARD 2-INCH CHAIN LINK DIAMOND MESH.



SERVICE GATE DETAIL
N.T.S.

LEGEND

PART NO.	DESCRIPTION	QUANTITY
1	STRAIGHT PLUG	2
2	BOTTOM HINGE	2
3	TOP HINGE	2
4	CORNER ELBOW	8
5	PLUNGER ROD	1
6	LATCH FORK	2
7	FORK CATCH	2
8	PLUNGER ROD CATCH	1
9	LOCK KEEPER GUIDE	1
10	LOCK KEEPER	1
11	ORNAMENTAL TOPS	6
12	TRUSS RODS	4
13	STRETCHER BAR	4
14	HOOK BOLTS	12



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**SITE
CONSTRUCTION
DETAILS**

SHEET NUMBER

4