



at&t

PERMANENT ANTENNA INSTALLATION

1140 N. MATHILDA AVENUE
SUNNYVALE, CALIFORNIA

VICINITY MAP

SCALE: N.T.S.

APPLICABLE SPECIFICATIONS

3.0 SALAS O'BRIEN STANDARD SPECIFICATIONS FOR AT&T PROJECTS:
THESE SPECIFICATIONS WERE ISSUED AUGUST 2015 BY SALAS O'BRIEN ENGINEERS AND ARE APPLICABLE TO THIS PROJECT. THEY SHALL BECOME BID DOCUMENTS FOR THIS PROJECT BY THIS REFERENCE. THEY INCLUDE BOTH MATERIAL SPECIFICATIONS AND SPECIAL REQUIREMENTS FOR WORKING IN TELECOMMUNICATIONS BUILDINGS. THESE REQUIREMENTS AND SPECIFICATIONS APPLY TO ALL MECHANICAL WORK AND MECHANICAL SUBCONTRACT WORK ON THE PROJECT. IT IS THE MECHANICAL CONTRACTOR'S RESPONSIBILITY TO ASSURE THAT ALL PERSONNEL WORKING UNDER THE MECHANICAL CONTRACT, EITHER AS SUBCONTRACTORS OR EMPLOYEES, ADHERE TO THESE REQUIREMENTS AND SPECIFICATIONS. COPIES OF THESE SPECIFICATIONS ARE AVAILABLE FROM SALAS O'BRIEN ENGINEERS.
2.0 OTHER APPLICABLE SPECIFICATIONS:
OTHER SPECIFICATIONS MAY APPLY TO THIS PROJECT. AT&T'S ALLIANCE CONTRACTOR MAY ISSUE BID INSTRUCTIONS, EXHIBITS, OR ADDENDUMS WHICH APPLY TO THIS PROJECT.
3.0 PRIORITY OF SPECIFICATIONS:
IF THERE IS A CONFLICT BETWEEN ANY OF THE APPLICABLE SPECIFICATIONS, THE DOCUMENT WITH THE HIGHEST PRIORITY RANKING AS INDICATED BELOW SHALL APPLY.
#1 ADDENDUMS
#2 BID INSTRUCTIONS
#3 EXHIBITS (I.E. EXHIBIT A)
#4 INFORMATION ON THE DRAWINGS.
#5 SALAS O'BRIEN STANDARD SPECIFICATIONS FOR AT&T PROJECTS.

BUILDING DATA

BUILDING DATA	
BUILDING OCCUPANCY TYPE	B
BUILDING USE	TELECOMMUNICATIONS SWITCHING STATION
CONSTRUCTION TYPE	TYPE II-B
NUMBER OF FLOORS	1 + BASEMENT
OCCUPIED FLOORS	ALL
SQUARE FOOTAGE	38,400 SF
FIRE SPRINKLERS	NONE

SUMMARY OF WORK

THE PURPOSE OF THIS PROJECT IS TO MAINTAIN TELEPHONE SERVICE TO THE SAN ANTONIO VALLEY. CURRENTLY THIS AREA IS SERVED BY A MICROWAVE ANTENNA CONNECTION BETWEEN SUNNYVALE & THE SAN ANTONIO VALLEY WITH A INTERMEDIATE RELAY STATION NEAR MOUNT HAMILTON. THIS ANTENNA IS A POINT TO POINT ANTENNA & A NEW BUILDING BEING BUILT AT 1170 BORDEAUX DRIVE WILL BLOCK THE PATH. THIS HAS NECESSITATED THE EMERGENCY INSTALLATION OF THE EXISTING TEMPORARY & NEW PERMANENT TOWER DESCRIBED IN THESE DOCUMENTS.
THE SCOPE OF WORK INCLUDES
1. DISCONNECT AND REMOVE THE EXISTING RETIRED IN PLACE & TEMPORARY ANTENNA TOWERS.
2. RE-LOCATE ONE CATCH BASIN.
3. INSTALL A NEW PERMANENT 64"-2" HIGH DIRECTIONAL MICROWAVE ANTENNA IN THE PARKING LOT.
4. PROVIDE & INSTALL ACCESSIBLE PARKING STALL, SIGNS & GRAPHICS.
5. PROVIDE & INSTALL ENLARGED STAIR LANDING, HANDRAILS, STEPS.
6. PROVIDE & INSTALL ACCESSIBLE RAMP AND HANDRAILS.
7. MODIFY CHAIN LINK FENCING & GATES AS SHOWN IN DRAWINGS.
8. PROVIDE & INSTALL NEW C.L. FENCING & GATES W/ CONCERTINA WIRE AROUND MICROWAVE ANTENNA.

ABBREVIATIONS AND SYMBOLS

AD	ACCESS DOOR	EXISTING	
AFF	ABOVE FINISHED FLOOR	NEW	
AH	AIR HANDLING UNIT	***	TO BE REMOVED
AI	ANALOG INPUT	(M)	WORK ITEM (MECHANICAL)
AO	ANALOG OUTPUT	(A)	WORK ITEM (ARCHITECTURAL)
AP	ACCESS PANEL	(A)	AIR OUTLET MARK
ARCH	ARCHITECTURAL (DRAWING)		
AS	AIR SEPARATOR		
BUR	BUILT-UP ROOFING		
CDW	CONDENSER WATER		
C.L.	CHAIN LINK		
CT	COOLING TOWER		
CTRL	CONTROL		
CW	CHILLED WATER		
CU	COPPER		
DDC	DIRECT DIGITAL CONTROL		
DEG	DEGREE		
DI	DIGITAL INPUT		
DO	DIGITAL OUTPUT		
<E>	EXISTING		
EFF	EFFICIENCY		
FACP	FIRE ALARM CONTROL PANEL		
FD	FIRE DAMPER		
FF	FINISHED FLOOR		
FSD	FIRE/SMOKE DAMPER		
GA	GAUGE		
GPM	GALLONS PER MINUTE		
GSM	GALVANIZED SHEET METAL		
HP	HORSE POWER		
HSP	HOUSE SERVICE PANEL		
MCC	MOTOR CONTROL CENTER		
MIN	MINIMUM		
MTD	MOUNTED		
MTR	MOTOR		
MVD	MANUAL VOLUME DAMPER		
<N>	NEW		
N.T.S.	NOT TO SCALE		
OA	OUTDOOR AIR		
OAD	OUTDOOR AIR DAMPER		
O.C.	ON CENTER		
PH	PHASE		
PNL	PANEL		
RA	RETURN AIR		
RAD	RETURN AIR DAMPER/DUCT		
R.I.P.	RETIRED IN PLACE		
RPBFP	REDUCED PRESSURE BACK-FLOW PREVENTER		
S	SUPPLY		
SA	SUPPLY AIR		
SAD	SUPPLY AIR DAMPER/DUCT		
TBR	TO BE REMOVED		
TCP	TEMPERATURE CONTROL PANEL		
TG	TRANSFER GRILL		
TYP	TYPICAL		
U.F.T.	UNDERGROUND FUEL TANK		
U.O.N.	UNLESS OTHERWISE NOTED		
VAV	VARIABLE AIR VOLUME		
V.I.F.	VERIFY IN FIELD		

SITE MAP

SCALE: N.T.S.

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REVISIONS / AUTHORIZATIONS

NO.	REVISIONS / AUTHORIZATIONS	DATE	BY
	PLANNING DESIGN REVIEW	03/31/16	
	PLANNING SUBMITTAL	04/19/16	
	PLANNING COMMENT RESPONSE	06/08/16	

PROPRIETARY AT&T INFORMATION

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DRAWINGS PREPARED FOR

at&t **CORPORATE REAL ESTATE**

PROJECT TITLE:

PERMANENT ANTENNA INSTALLATION

1140 N. MATHILDA AVENUE
SUNNYVALE
CA US

SNVACA11 122275.01 P6022

SHEET TITLE:

**COVER SHEET
GENERAL/TITLE/COVER**

AT&T PROJECT NUMBER:

W21827

DATE: 04/19/16

SCALE: AS NOTED

DRAWN BY:

CHECKED BY: CC

AT&T AUTHORIZATION

SHEET: OF: SHEETS

AT&T DRAWING NO:

SHEET NO.

JEFFREY RUNELS

W21827G001

G001

SHT. NO.

DESCRIPTION

G001

COVER SHEET

G002

DTECH RF COMPLIANCE LETTER

A101D

ARCHITECTURAL SITE PLAN - DEMO

A101

ARCHITECTURAL SITE PLAN - NEW

A201

ARCHITECTURAL ELEVATIONS

A202

ARCHITECTURAL ELEVATIONS

A401

ARCHITECTURAL ENLARGED SITE PLAN

A501

ARCHITECTURAL DETAILS

A502

ARCHITECTURAL DETAILS

P101

PLUMBING PARTIAL SITE PLAN

S101

STRUCTURAL NOTES, PLAN, & DETAILS

* NOT INCLUDED IN THIS SET

K:\drawings\ATT\2015 Projects\152015.1 1140 N Mathilda Ave Sunnyvale Permanent Antenna Installation\152015.1-W218270001.dwg 6/8/2016 1:58 PM Toan Pham

DTECH RF COMPLIANCE LETTER



YOUR RF SAFETY PARTNER

February 23, 2016

SUBJECT: RF safety compliance of AT&T's microwave dish site located at 1140 N. Mathilda, Sunnyvale, CA 94089.

To Whom It May Concern:

Dtech Communications, LLC ("Dtech") has been retained by Salas O'Brien, contractors to AT&T, to determine whether its above referenced wireless communications facility complies with the Federal Communications Commission ("FCC") Radio Frequency ("RF") Safety Guidelines. The following summarizes our findings with regard to compliance with the FCC rules and regulations.

BACKGROUND

The FCC states in 47 CFR § 1.1310 that the Maximum Permissible Exposure ("MPE") level from RF emission for the general population is between 0.2 and 1 milliWatts per centimeter squared (mW/cm^2) depending upon the frequency (.03 – 100Ghz) of the transmitter. This is a measure of the RF power density at or below which there are no harmful effects for continuous exposure.

ANALYSIS

Dtech engineers performed a computer-simulated analysis on February 23, 2016. The proposed, site consists of one (1), ten-foot, dish antenna (Commscope/ UHX10-59K RF) mounted on a lattice tower at a centerline elevation of 55-feet above the ground level. The dish will operate at 6226.89 megahertz frequency band with input powers of 3.15 watts (35.0 dBm).

Microwave systems have very narrow beam patterns and are designed to operate in a line-of-site environment. Therefore, exposure levels observed for a person standing on the ground below the dish antenna are virtually zero.

At antenna elevation (in the air, directly in front of the antenna), the worse-case exposure level is predicted to be 0.173 mW/cm^2 which is equivalent to 17.3% of the FCC's General Population MPE Limits.

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CONCLUSION

Based on our findings, it is the undersigned's professional opinion that AT&T's site will be compliant with the FCC's RF Safety Guidelines. The worse-case exposure level is predicted to be well below the FCC's General Population MPE Limits for continuous exposure. It is important to note that the FCC's MPE Limits are set at 50 times below the adverse-health-effect threshold according to scientific knowledge.

Please contact me should you require additional information.

Sincerely,

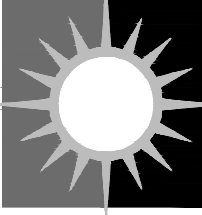

Darang Tech, P.E.
CEO, Dtech Communications

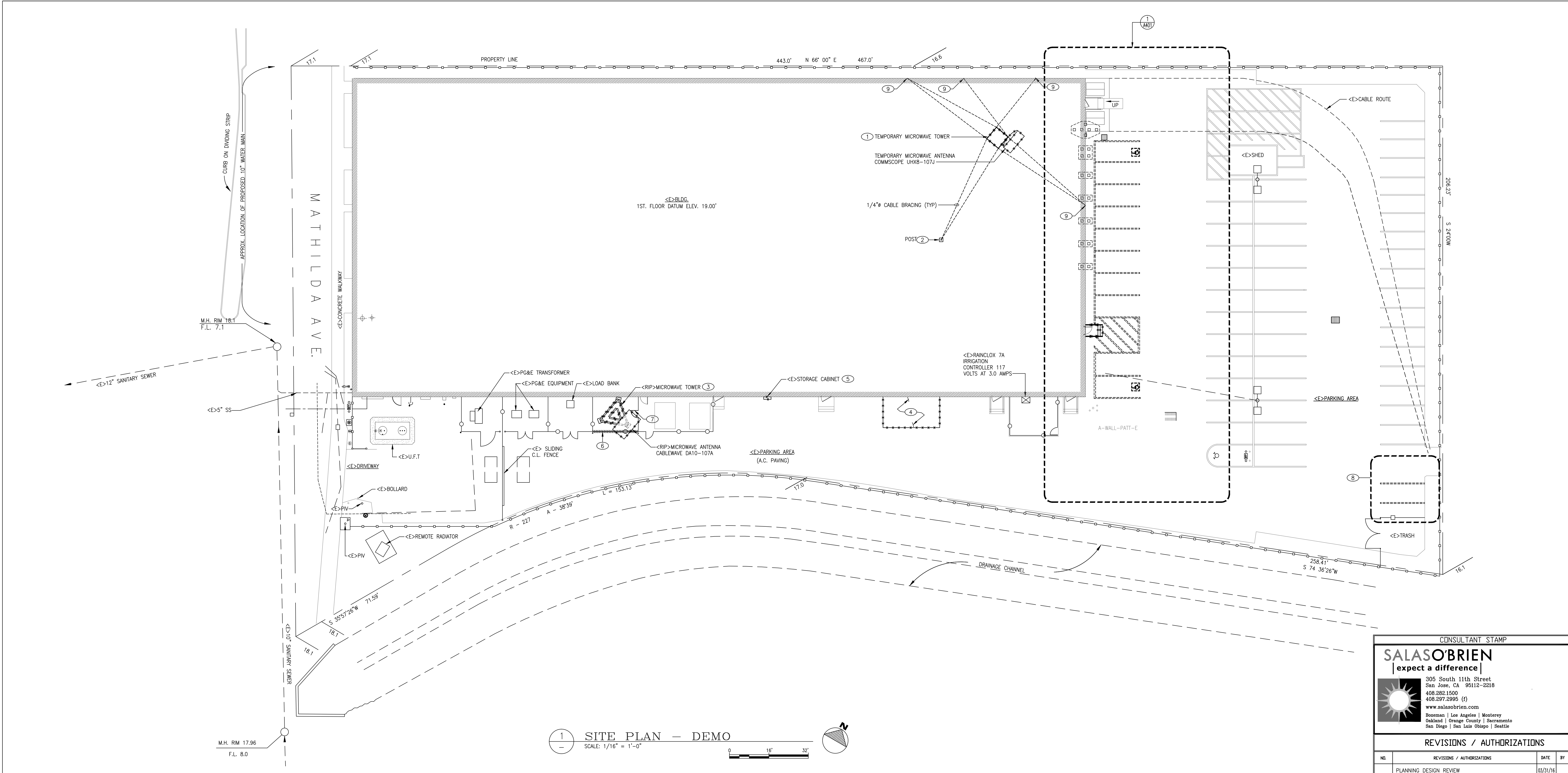


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DRAWINGS PREPARED FOR			
		CORPORATE REAL ESTATE	
PROJECT TITLE: PERMANENT ANTENNA INSTALLATION			
1140 N. MATHILDA AVENUE SUNNYVALE CA US			
SNVACA11		122275.01	P6022
SHEET TITLE: DTECH RF COMPLIANCE LETTER GENERAL			
AT&T PROJECT NUMBER: W21827		DATE: 04/19/16 DRAWN BY: CC	SCALE: AS NOTED CHECKED BY: CC
AT&T AUTHORIZATION JEFFREY RUNELS		SHEET: 01 AT&T DRAWING NO: W21827G002	SHEET NO. G002



1 SITE PLAN - DEMO
SCALE: 1/16" = 1'-0"
0 16' 32'

REFERENCE SHEET NOTES

- 1 DISCONNECT & REMOVE <E> TEMPORARY MICROWAVE TOWER.
- 2 REMOVE <E> CABLE BRACING POSTS & PATCH ROOF. ONLY ONE IS SHOWN ON THE PLANS. EIGHT MORE ARE LOCATED UNDER THE TOWER.
- 3 DISCONNECT & REMOVE <E> RETIRED IN PLACE MICROWAVE TOWER.
- 4 DEMO HOUSE KEEPING PAD.
- 5 REMOVE ABANDONED STORAGE CABINET.
- 6 DEMO CHAIN LINK FENCE & ASSOCIATED POSTS.
- 7 DEMO GATE.
- 8 THIS WORK SHALL BE PART OF A SEPARATE PERMIT BUT IS SHOWN TO ENSURE THE PARKING COUNT IS ACCURATE. SEE SHEET A101 FOR FURTHER INFORMATION.
- 9 DISCONNECT & REMOVE THROUGH BOLTS, PATH HOLES WITH GROUT & ROOF OVER HOLES IN THE ROOFING. PRIME & PAINT THE EXTERIOR TO MATCH THE SURROUNDING AREA.

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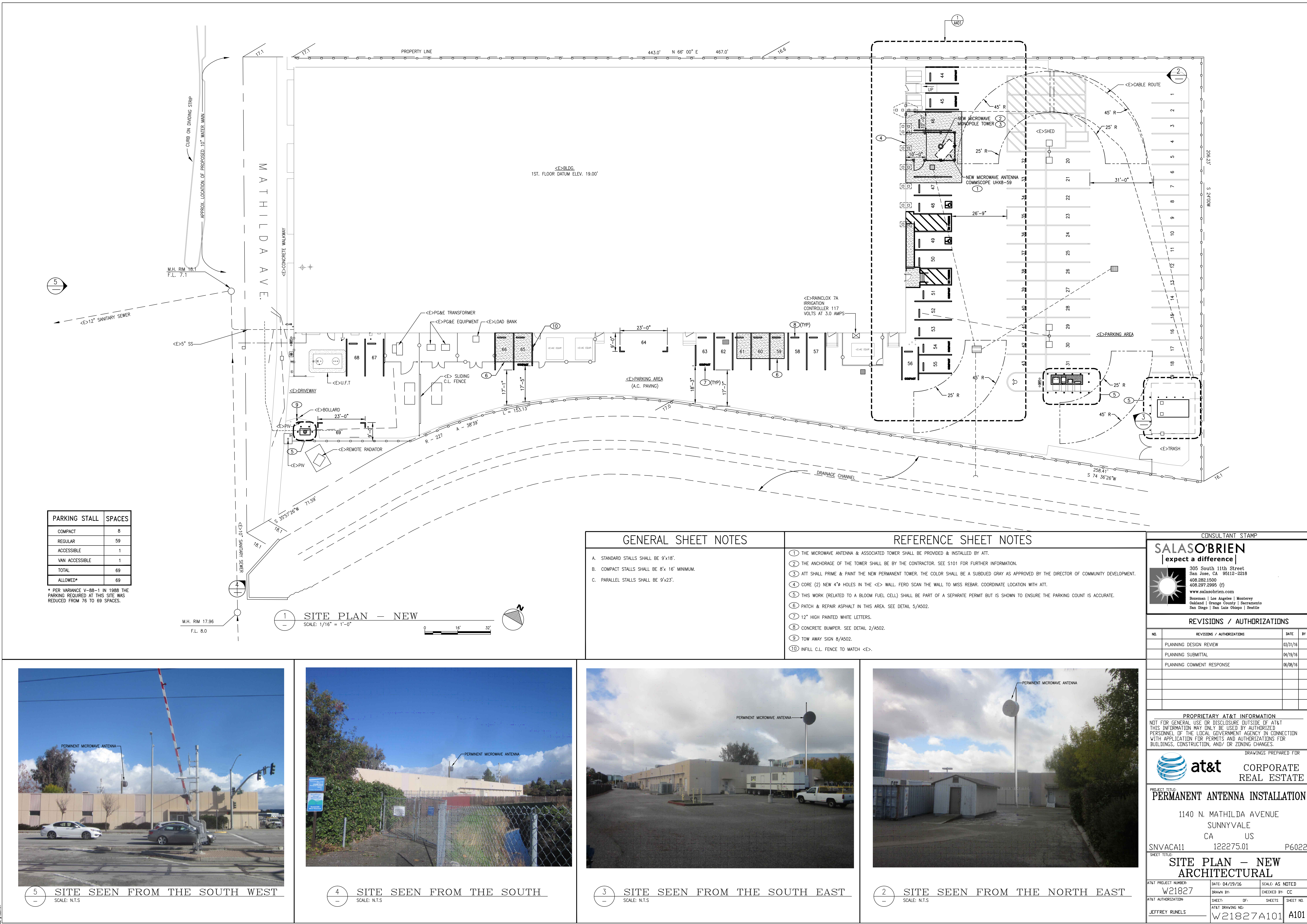


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SHEET TITLE:
**SITE PLAN - DEMO
ARCHITECTURAL**

AT&T PROJECT NUMBER: W21827	DATE: 04/19/16 DRAWN BY: CC	SCALE: AS NOTED CHECKED BY: CC
AT&T AUTHORIZATION JEFFREY RUNELS	SHEET: 101 AT&T DRAWING NO: W21827A101D	SHEETS SHEET NO. A101D



PARKING STALL	SPACES
COMPACT	8
REGULAR	59
ACCESSIBLE	1
VAN ACCESSIBLE	1
TOTAL	69
ALLOWED*	69

* PER VARIANCE V-88-1 IN 1988 THE PARKING REQUIRED AT THIS SITE WAS REDUCED FROM 76 TO 69 SPACES.

- GENERAL SHEET NOTES
- A. STANDARD STALLS SHALL BE 9'x18'.
 - B. COMPACT STALLS SHALL BE 8'x16' MINIMUM.
 - C. PARALLEL STALLS SHALL BE 9'x23'.

- REFERENCE SHEET NOTES
- 1 THE MICROWAVE ANTENNA & ASSOCIATED TOWER SHALL BE PROVIDED & INSTALLED BY ATT.
 - 2 THE ANCHORAGE OF THE TOWER SHALL BE BY THE CONTRACTOR. SEE S101 FOR FURTHER INFORMATION.
 - 3 ATT SHALL PRIME & PAINT THE NEW PERMANENT TOWER. THE COLOR SHALL BE A SUBDUED GRAY AS APPROVED BY THE DIRECTOR OF COMMUNITY DEVELOPMENT.
 - 4 CORE (2) NEW 4" HOLES IN THE <E> WALL. FERO SCAN THE WALL TO MISS REBAR. COORDINATE LOCATION WITH ATT.
 - 5 THIS WORK (RELATED TO A BLOOM FUEL CELL) SHALL BE PART OF A SEPARATE PERMIT BUT IS SHOWN TO ENSURE THE PARKING COUNT IS ACCURATE.
 - 6 PATCH & REPAIR ASPHALT IN THIS AREA. SEE DETAIL 5/A502.
 - 7 12" HIGH PAINTED WHITE LETTERS.
 - 8 CONCRETE BUMPER. SEE DETAIL 2/A502.
 - 9 TOW AWAY SIGN 8/A502.
 - 10 INFILL C.L. FENCE TO MATCH <E>.

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DRAWINGS PREPARED FOR

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1140 N. MATHILDA AVENUE
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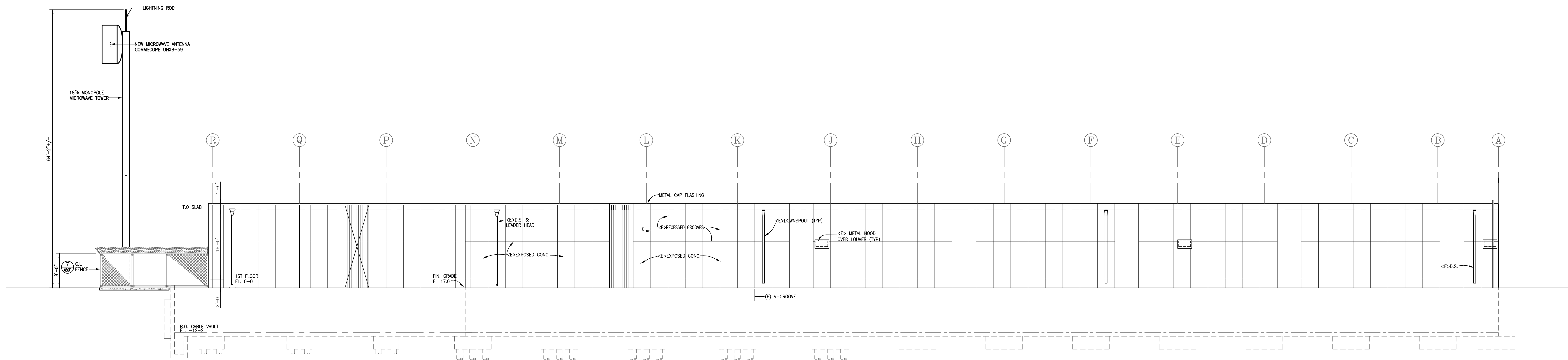
SNVACA11 122275.01 P6022

SHEET TITLE:
**SITE PLAN - NEW
ARCHITECTURAL**

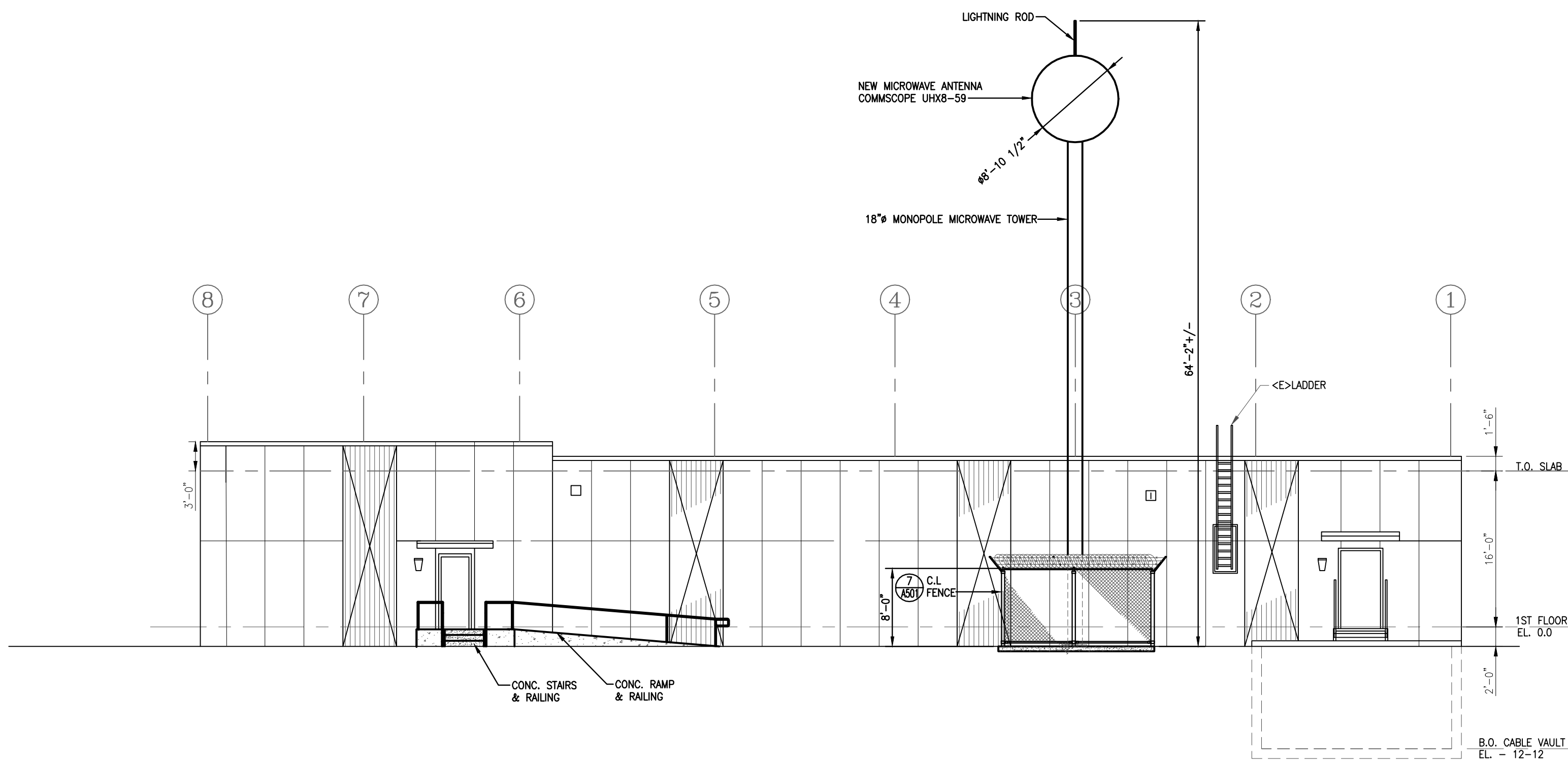
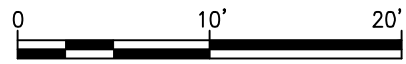
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AT&T AUTHORIZATION	DRAWN BY: CC	CHECKED BY: CC
AT&T DRAWING NO: W21827A101	SHEET: 101	SHEETS 101
JEFFREY RUNELS		A101



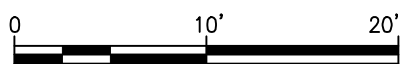
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<div style="display: flex; justify-content: space-between;"> <div style="width: 20%;"> </div> <div style="width: 80%;"> <p>305 South 11th Street San Jose, CA 95112-2218</p> <p>408.282.1500 408.297.2895 (f)</p> <p>www.salasobrien.com</p> <p>Bourman Los Angeles Monterey Oakland Orange County Sacramento San Diego San Luis Obispo Seattle</p> </div> </div>			
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<h2 style="margin: 0;">DRAWINGS PREPARED FOR</h2>			
		<h1 style="margin: 0;">DRAWINGS REAL ESTATE</h1>	
<p>PROJECT TITLE</p> <h1 style="margin: 0; text-align: center;">PERMANENT ANTENNA INSTALLATION</h1> <p style="text-align: center; font-size: 1.2em;">1140 N. MATHILDA AVENUE SUNNYVALE CA US</p> <p style="display: flex; justify-content: space-between;"> SNVACA11 122275.01 P6022 </p> <p>SHEET TITLE:</p>			
<h1 style="margin: 0;">ELEVATIONS</h1> <h1 style="margin: 0;">ARCHITECTURAL</h1>			
<p>AT&T PROJECT NUMBER</p> <h2 style="margin: 0; text-align: center;">W21827</h2>		<p>DATE 04/19/16</p> <p>SCALE: AS NOTED</p>	
<p>AT&T AUTHORIZATION</p> <p style="text-align: center;">JEFFREY RUNLS</p>		<p>DRAWN BY: _____</p> <p>CHECKED BY: CC</p>	
<p>SHEET: _____ OF: _____</p> <p>AT&T DRAWING NO: _____</p> <h2 style="margin: 0; text-align: center;">W21827A201</h2>		<p>SHEETS: _____</p> <p>SHEET NO: _____</p> <h2 style="margin: 0; text-align: center;">A201</h2>	



1 NORTH ELEVATION
SCALE: 1" = 10'-0"



2 EAST ELEVATION
SCALE: 1" = 10'-0"



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SHEET TITLE:
**ELEVATIONS
ARCHITECTURAL**

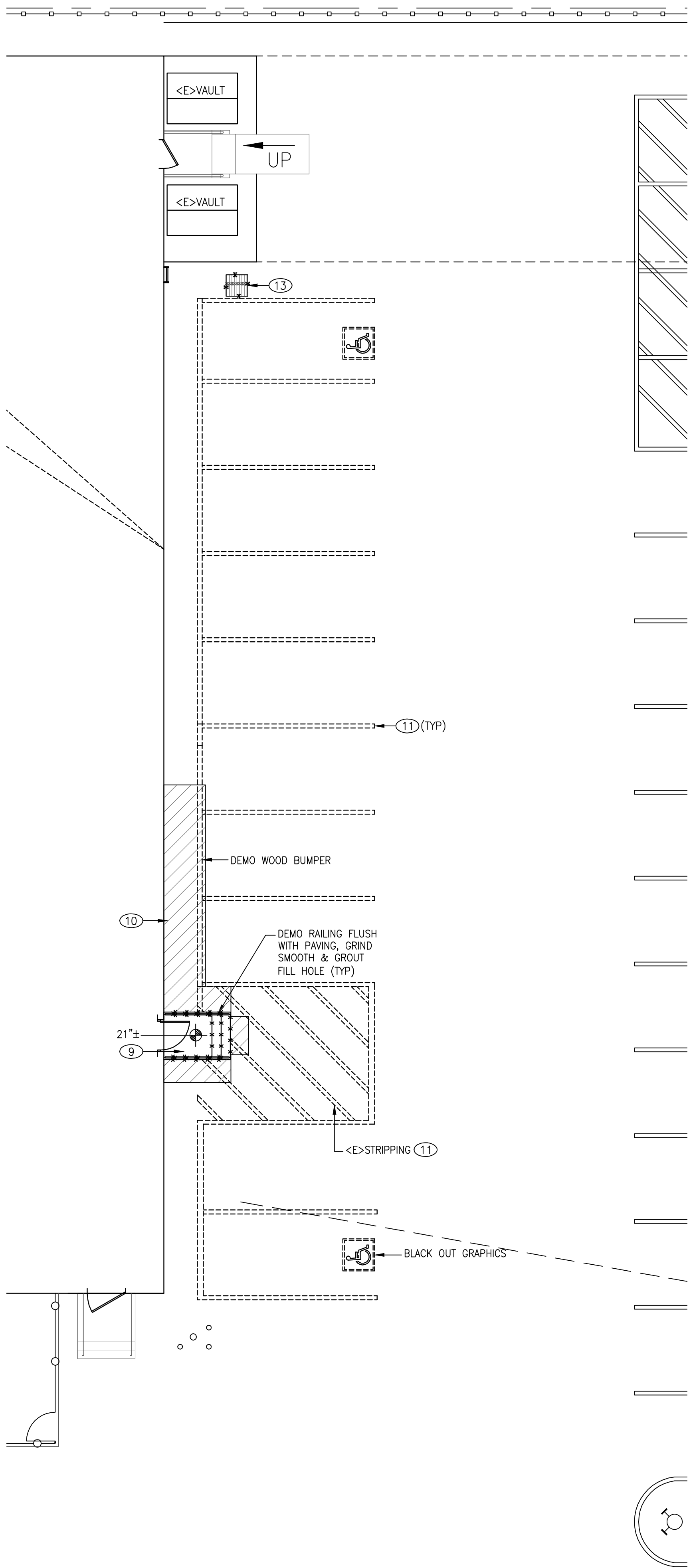
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GENERAL SHEET NOTES

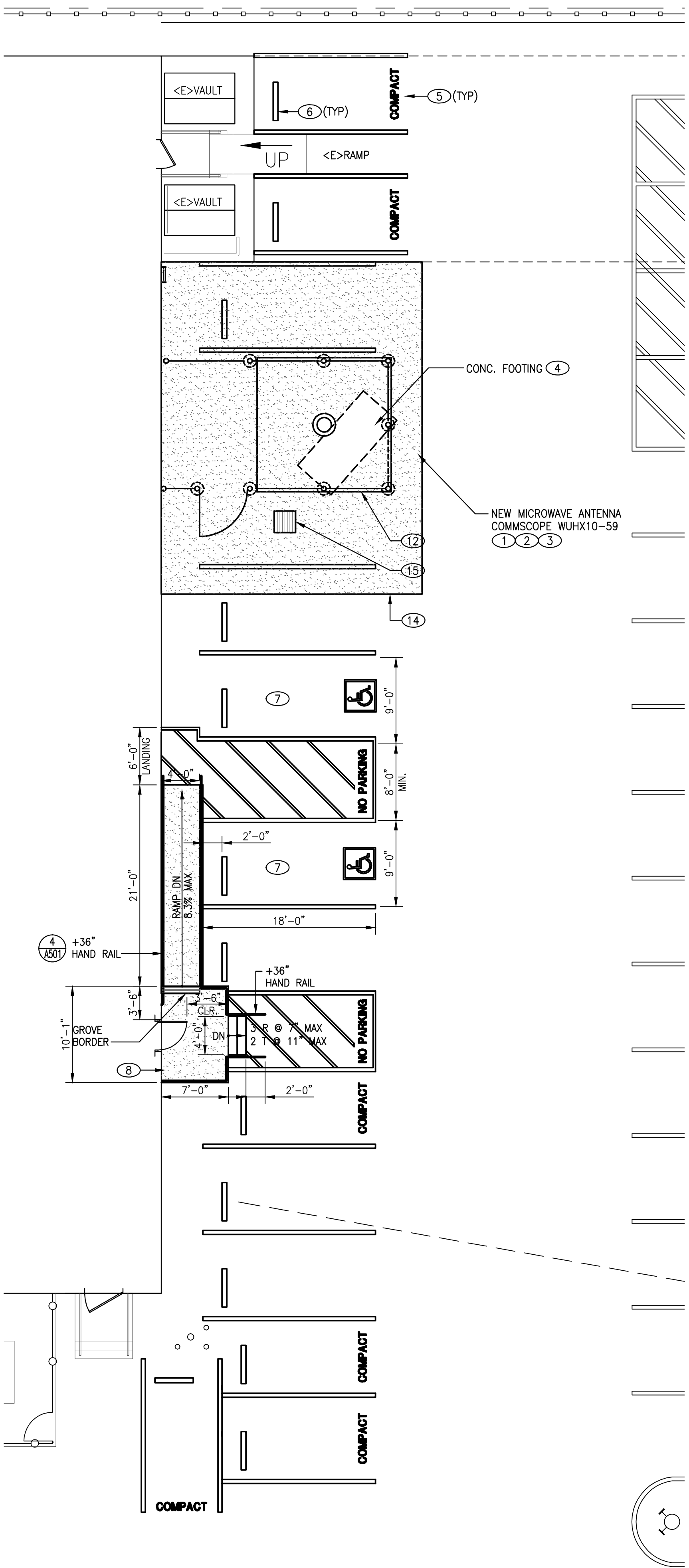
- A. STANDARD STALLS SHALL BE 9'x18".
B. COMPACT STALLS SHALL BE 8'x 16" MINIMUM.
C. PARALLEL STALLS SHALL BE 9'x23'.
D. IN AREAS WHERE NEW STRIPING IS TO BE PAINTED REMOVE ALL OLD STRIPING PRIOR TO BEGINNING THE NEW STRIPING.

REFERENCE SHEET NOTES

- ① THE MICROWAVE ANTENNA & ASSOCIATED TOWER SHALL BE PROVIDED & INSTALLED BY ATT.
② THE ANCHORAGE OF THE TOWER SHALL BE BY THE CONTRACTOR. SEE THE STRUCTURAL SHEETS FOR FURTHER INFORMATION.
③ THE NEW PERMANENT TOWER SHALL BE PRIMED & PAINTED. USE SHERMAN-WILLIAMS PRO-CRYL PRIMER WITH A DIRECT TO METAL TOP COAT. COLOR SHALL BE A SUBDUED GRAY AS APPROVED BY SUNNYVALE DIRECTOR OF COMMUNITY DEVELOPMENT.
④ THE FOOTING SHALL BE BY ATT. SEE THE STRUCTURAL SHEETS FOR FURTHER INFORMATION.
⑤ 12" HIGH PAINTED LETTERS.
⑥ CONCRETE BUMPER. SEE DETAIL 2/A502.
⑦ ACCESSIBLE PARKING SEE DETAIL 3/A502.
⑧ CONC. STEPS, RAMP & LANDING. SEE DRAWING A501.
⑨ DEMO <E> LANDING & STAIRS.
⑩ DEMO AC PAVING.
⑪ REMOVE <E> STRIPING.
⑫ FENCING & GATES. SEE DETAIL 7/A501 & 8/A501.
⑬ CATCH BASIN TO BE REMOVED.
⑭ PATCH & REPAIR ASPHALT IN THIS AREA. SEE DETAIL 5/A502. RESLOPE THE AREA TO ENSURE IT DRAINS.
⑮ CATCH BASIN TO BE REINSTALLED. SEE THE PLUMBING SHEETS FOR FURTHER INFORMATION.



2 ENLARGED SITE PLAN - DEMO
SCALE: 1/8" = 1'-0"



1 ENLARGED SITE PLAN - NEW
SCALE: 1/8" = 1'-0"

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DRAWINGS PREPARED FOR

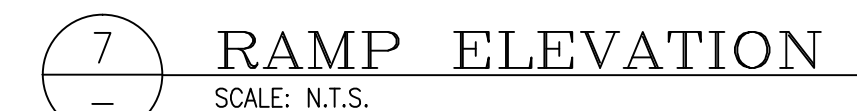
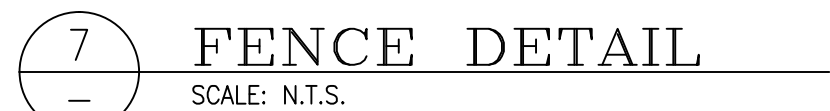
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PROJECT TITLE:
PERMANENT ANTENNA INSTALLATION

1140 N. MATHILDA AVENUE
SUNNYVALE
CA US
SNVACA11 122275.01 P6022

SHEET TITLE:
**ENLARGED SITE PLAN
ARCHITECTURAL**

AT&T PROJECT NUMBER: W21827	DATE: 04/19/16	SCALE: AS NOTED
AT&T AUTHORIZATION JEFFREY RUNELS	DRAWN BY: SHEET: AT&T DRAWING NO: W21827A401	CHECKED BY: CC SHEETS SHEET NO. A401

REVISIONS / AUTHORIZATIONS

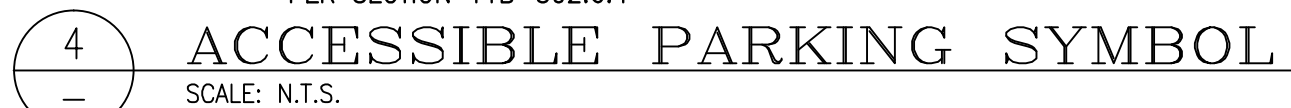
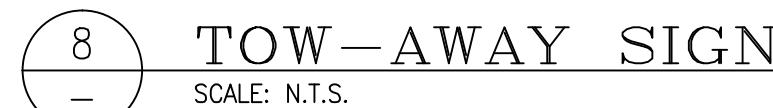
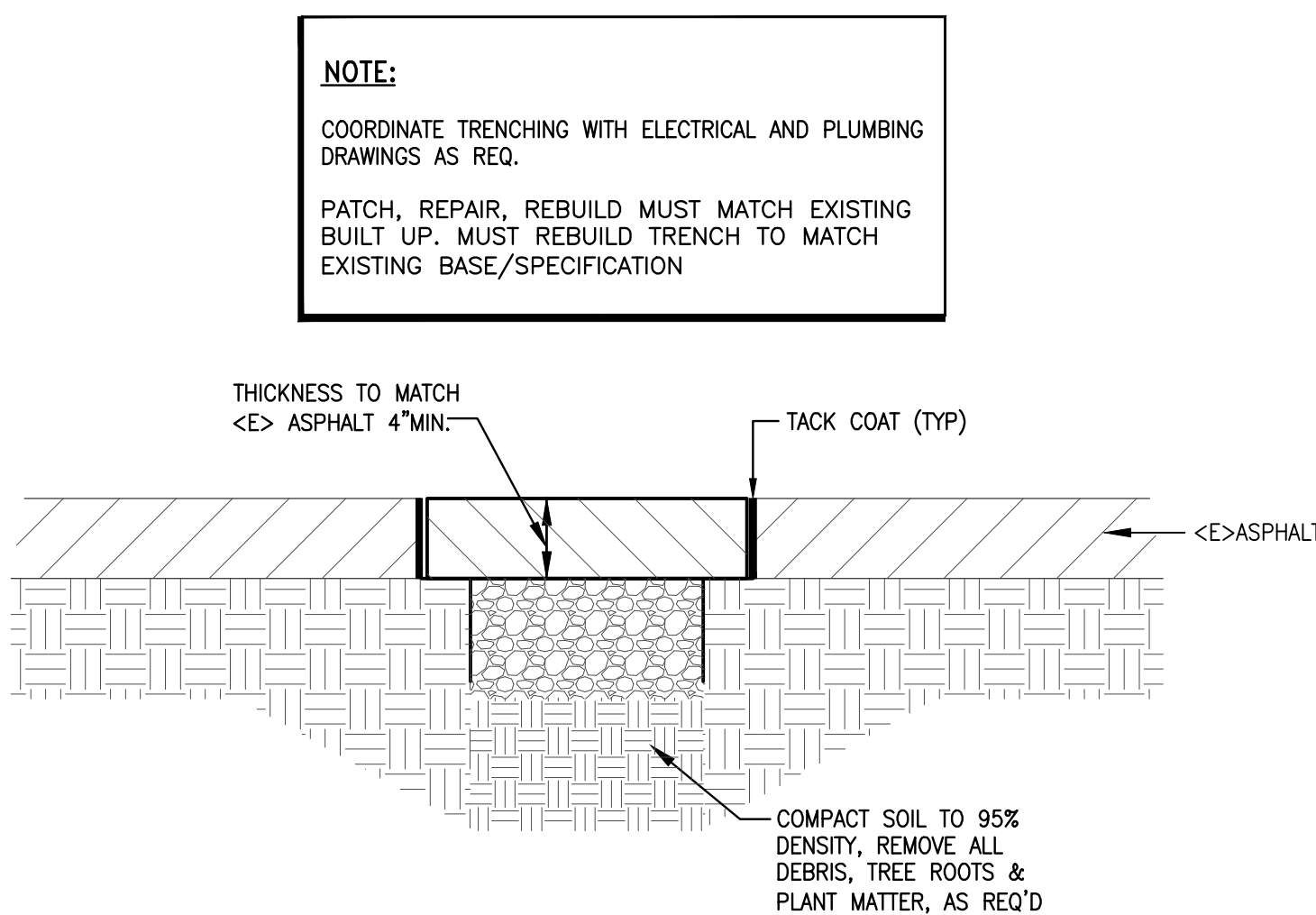
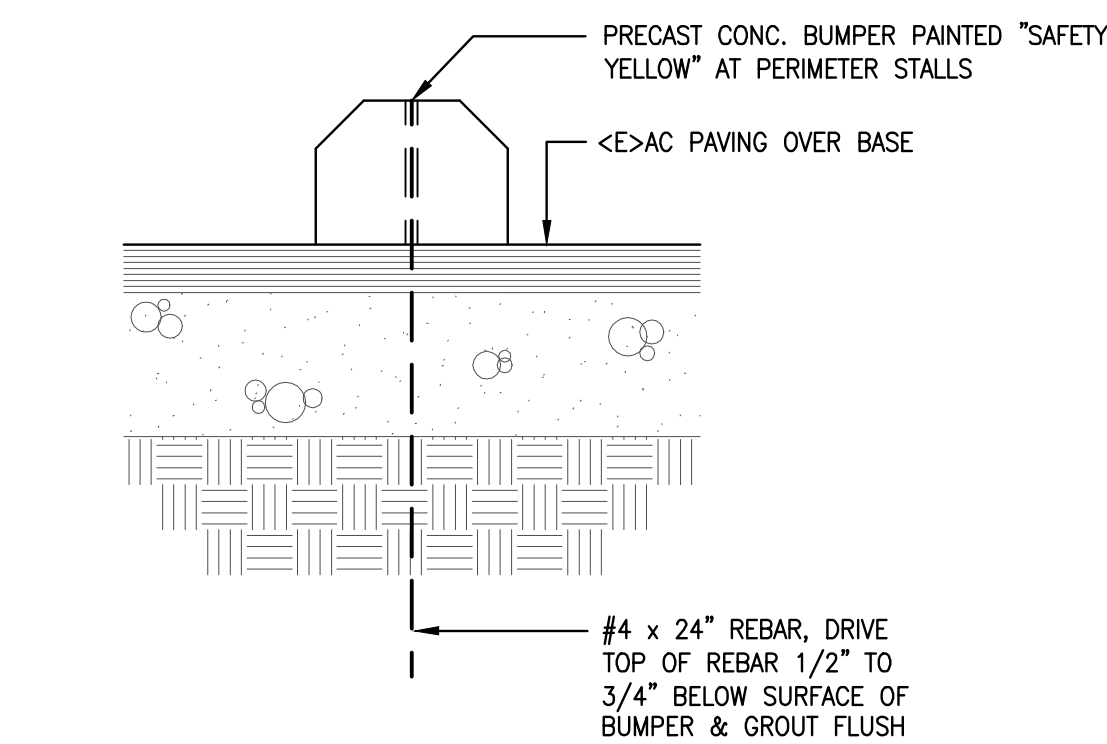
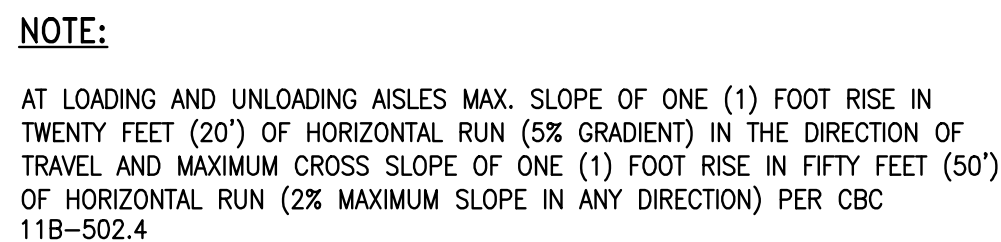
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PROJECT TITLE: **PERMANENT ANTENNA INSTALLATION**

SNVACA11	122275.01	P6022
SHEET TITLE:		

AT&T PROJECT NUMBER: W21827	DATE: 04/19/16	SCALE: AS NOTED
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AT&T AUTHORIZATION:	SHEET:	OF:	SHEETS	SHEET NO.
JEFFREY RUNELS	AT&T DRAWING NO:			A501
	W21827A501			A501



CONSULTANT STAMP

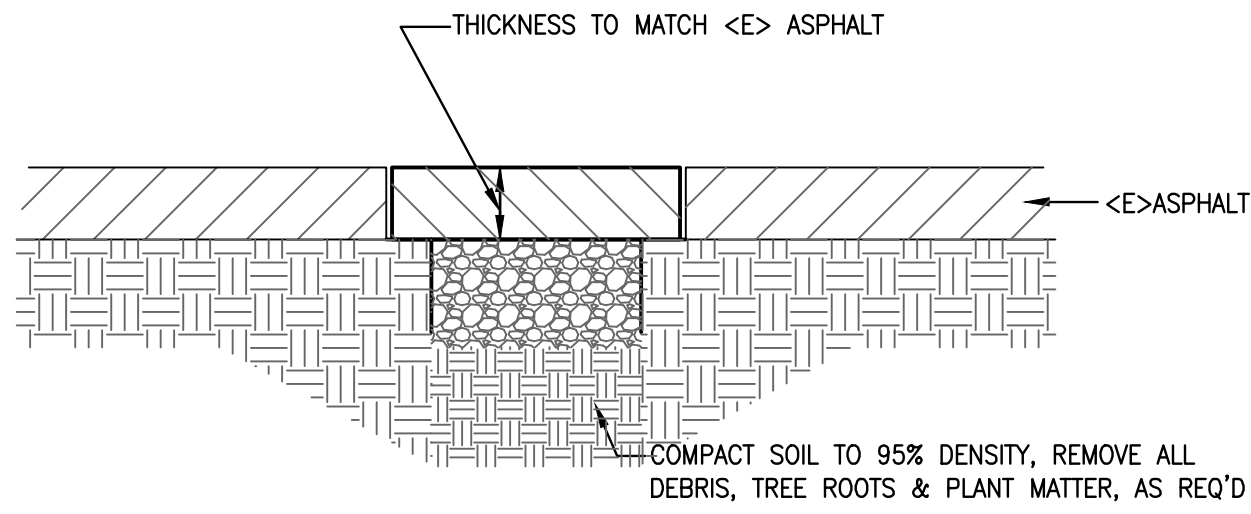
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REFERENCE SHEET NOTES

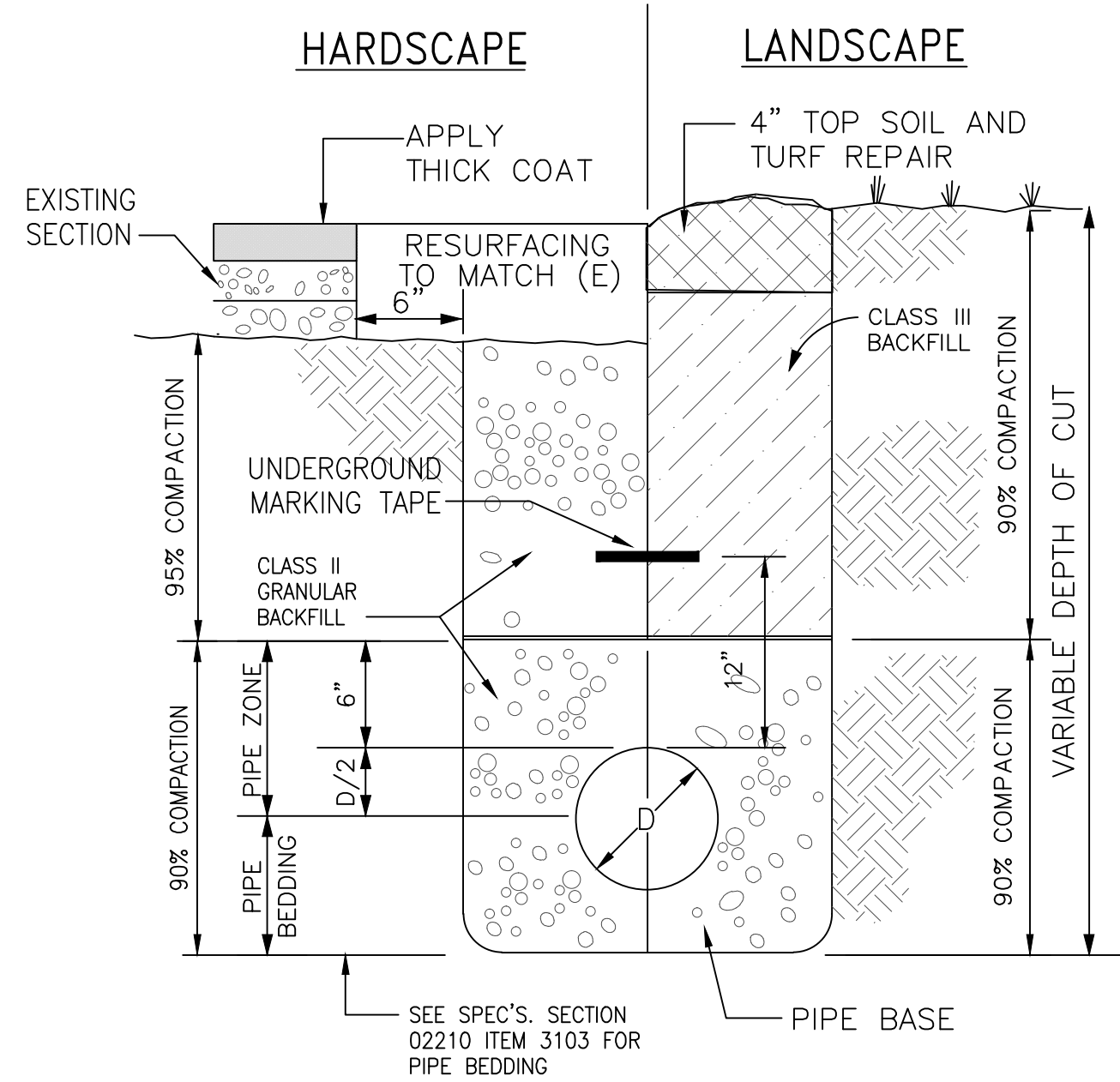
- 1 DEMO & REMOVE <E> CATCH BASIN. SALVAGE <E> GRATE.
- 2 DISCONNECT & REMOVE STORM DRAIN PIPE TO THE EXTENT SHOWN.
- 3 FILL TRENCH WHERE SECTION OF PIPE WAS REMOVED. SEE DETAILS 4 & 5.
- 4 PROVIDE & INSTALL NEW CATCH BASIN. USE GRATE FROM DEMOLISHED BASIN. SEE DETAIL 3.

NOTES:

1. COORDINATE TRENCHING WITH MECHANICAL & ELECTRICAL
2. 2% MAX SLOPE CROSS SLOPE AT PATH OF TRAVEL AND 5% MAX RUNNING SLOPE ALONG PATH OF TRAVEL



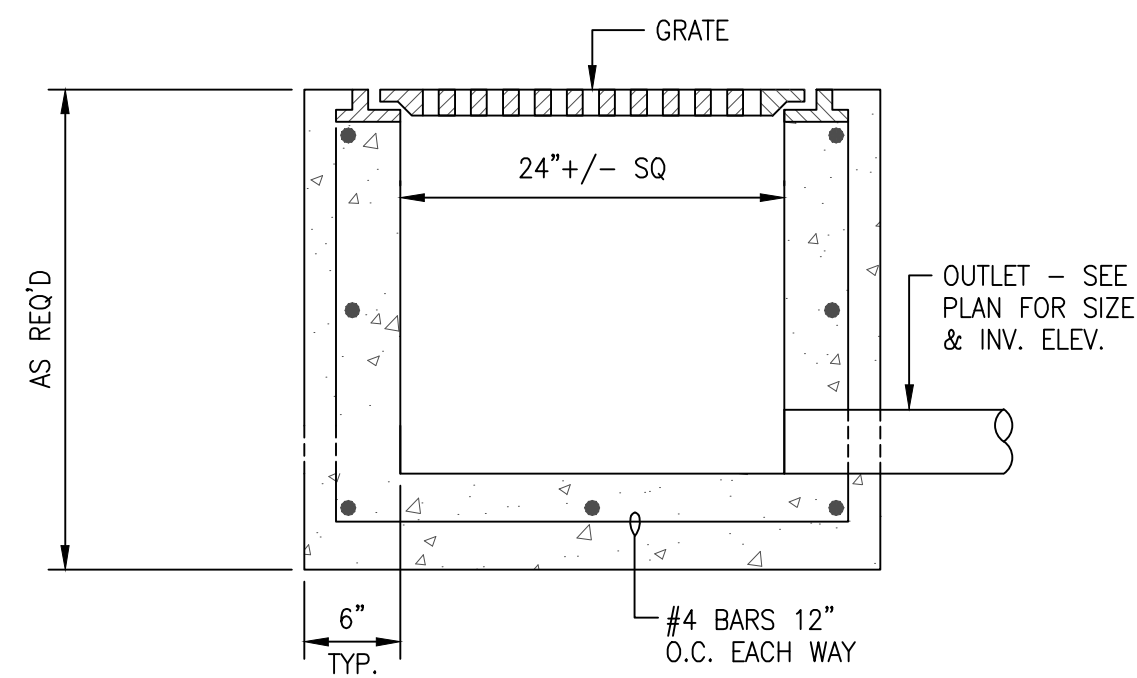
5 ASPHALT PATCH DETAIL
SCALE: N.T.S.



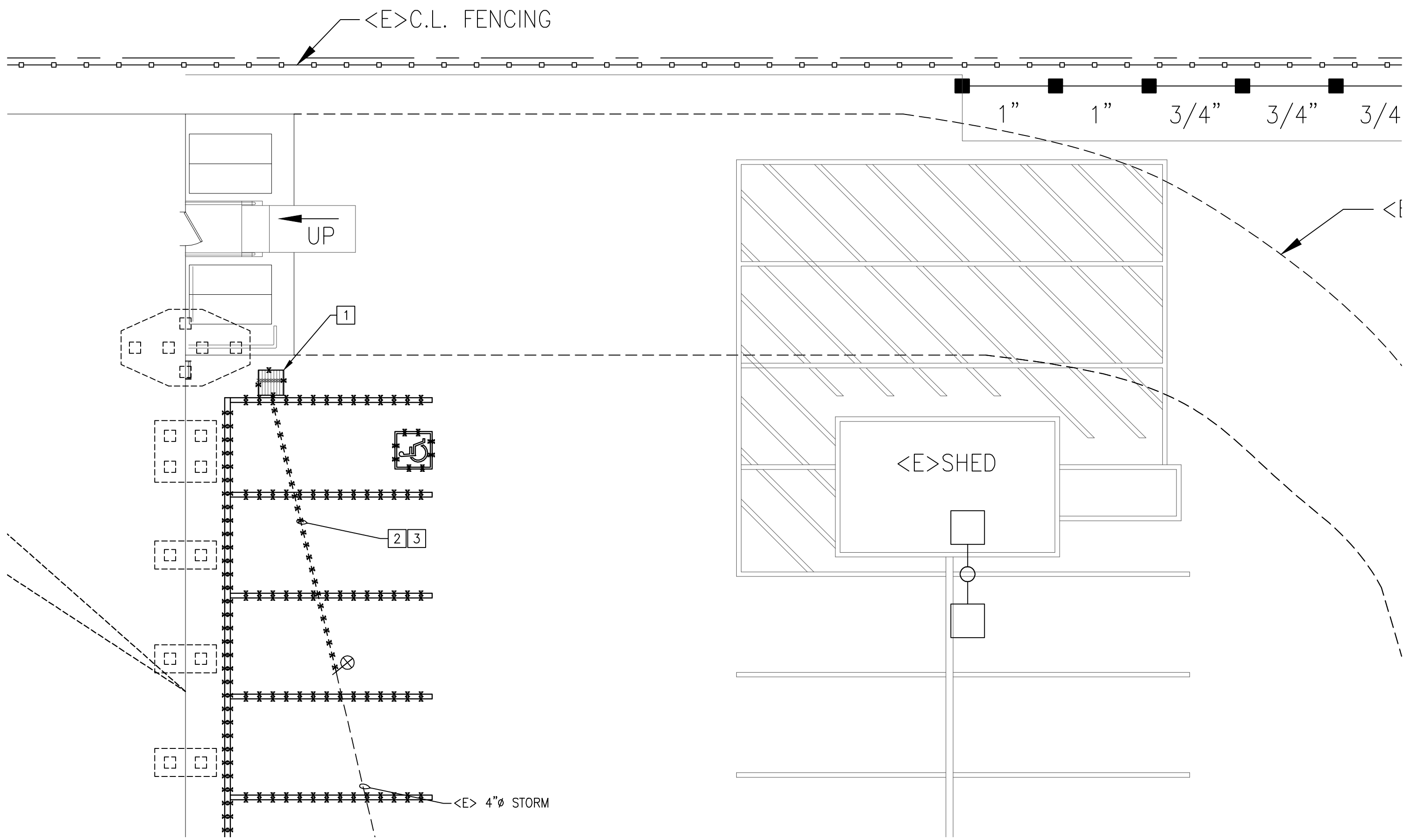
NOTES:

1. WHERE EXISTING SURFACE IS CONCRETE, 8" THICK CONCRETE REINFORCED WITH 6x6-10/10 WWF ON 4" BASE COURSE SHALL BE USED IN LIEU OF THE ABOVE 3" ASPHALT PAVEMENT.
2. FOR MULTIPLE PIPING IN TRENCH, MAINTAIN MIN. 6" SEPERATION EXCEPT SS, PROVIDE MIN. ELECTRICAL AND SS SHALL NOT SHARE THE SAME TRENCH.

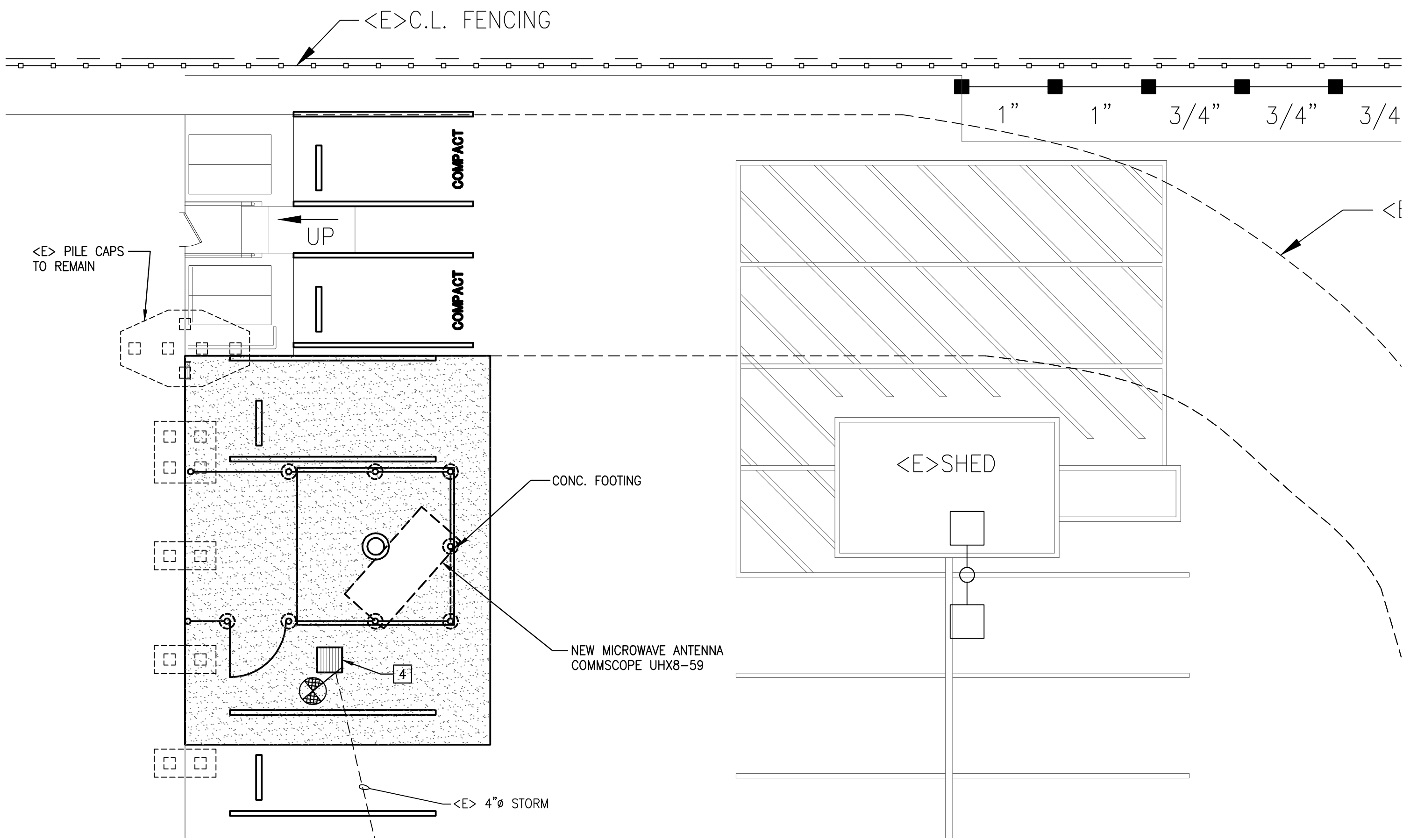
4 PIPE BEDDING & BACKFILL
SCALE: N.T.S.



3 CATCH BASIN
SCALE: N.T.S.



2 PARTIAL SITE PLAN - DEMO
SCALE: 1/8" = 1'-0"

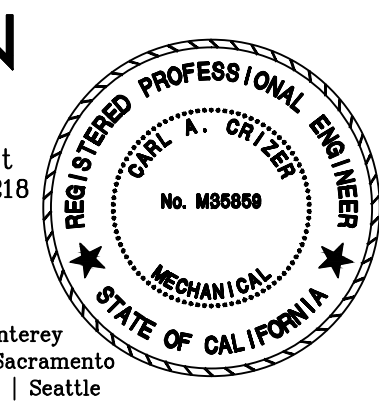


1 PARTIAL SITE PLAN - NEW
SCALE: 1/8" = 1'-0"

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REVISIONS / AUTHORIZATIONS

NO.	REVISIONS / AUTHORIZATIONS	DATE	BY
	PLANNING DESIGN REVIEW	03/31/16	
	PLANNING SUBMITTAL	04/19/16	
	PLANNING COMMENT RESPONSE	06/08/16	

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PROJECT TITLE:
PERMANENT ANTENNA INSTALLATION

1140 N. MATHILDA AVENUE
SUNNYVALE
CA US
SNVACA11 122275.01 P6022

SHEET TITLE:
**PARTIAL SITE PLAN
PLUMBING**

AT&T PROJECT NUMBER: W21827	DATE: 04/19/16	SCALE: AS NOTED
AT&T AUTHORIZATION JEFFREY RUNELS	DRAWN BY: SHEET: AT&T DRAWING NO: W21827P101	CHECKED BY: CC SHEETS SHEET NO. P101