

# **Staff Report**

PLANNING DIVISION DEPARTMENT of COMMUNITY and NEIGHBORHOODS

To: Salt Lake City Administrative Hearing Officer

From: Daniel Echeverria, <u>daniel.echeverria@slcgov.com</u>, 385-226-3835

Date: July 15, 2021 (publication)

**Re**: PLNPCM2021-00368 – T-mobile Cellular Antenna Replacement

## **Conditional Use**

PROPERTY ADDRESS: 523 W 200 North PARCEL ID: 08-36-352-024-0000 MASTER PLAN: North Temple Boulevard Plan ZONING DISTRICT: TSA-UC-T (Transit Station Area, Urban Center, Transition)

**REQUEST:** T-mobile, represented by Craig Chagnon of Crown Castle USA Inc, is requesting to replace an existing cellular antenna array with a larger array on an existing cellular service monopole at approximately 523 W 200 North. The subject property is located within the TSA-UC-T (Transit Station Area, Urban Center, Transition). The monopole received Conditional Use approval in 2001 to exceed the maximum height of 60 feet, but the approval included a condition that the antenna arrays be flush mounted. The request will replace the existing antennas with a larger array that is wider and not flush mounted and so requires a new conditional use review. The height of the tower will not be increased.

**RECOMMENDATION:** Based on the information and findings in this staff report, Planning Staff recommends that the Administrative Hearing Officer approve the petition.

### **ATTACHMENTS:**

- **A.** Vicinity Map
- **B.** Site Photos
- **C.** Application Narrative and Plans
- **D.** Existing Conditions
- E. Analysis of Standards
- F. Public Process and Comments
- **G.** Department Comments

### **PROJECT DESCRIPTION:**

This petition is to increase the size of an existing cellular antenna array mounted on an existing monopole. The existing monopole and antenna array received Conditional Use approval in 2001 (Petition #410-523). The monopole received Conditional Use approval in 2001 to exceed the maximum height of 60 feet, but the approval included a condition that the antenna arrays be flush mounted. Specially, the approval included the following conditions:

1. Painting the monopole, antennas and mounting equipment a flat gray color.

- 2. Allowing two other sets of wireless telecommunication antennas on the pole provided all antennas are flush mounted and no microwave dishes are allowed.
- 3. Minimal antenna bracing be used.

The request will replace the existing antennas with a larger array that is wider, with larger antenna bracing that is not flush mounted. As the antenna mounting style and size was specifically limited under the prior Conditional Use approval for the monopole, a new Conditional Use is required for the monopole and antennas to eliminate that condition. The height of the tower will not be increased.

### Key Facts

Tower Height: 85'6" as shown on the plans. Prior CU approved height over 60'. Height is not changing.

Antenna Array Width: As shown, ~16.5'. Limited to 13' by City Code, overridden by federal regulations regarding antenna replacements (see Key Issues)

Antenna Array Height: As shown, ~8'. Limited to 8' by code.

### **Proposed** Antennas

The current array is generally attached directly to the monopole, as shown in the plan extract below. The proposed antennas are extended out from the pole with a support structure, allowing room for additional antennas.



Plan sheet extract showing existing and proposed antennas.

### **KEY ISSUES:**

The key issues listed below have been identified through the analysis of the project, neighbor and community input and department review comments.

### 1. Visual and Neighborhood Impacts

The subject property is located in the TSA-UC-T zone which allows for a wide variety of uses. The monopole is located on a property used for storage. The property directly to the north is used as a church with offices and to the east of the location is a major rail corridor.

The current antenna array on the monopole is approximately 8' in diameter. An image of that array can be found in the photos in Attachment C. The approval will allow the antenna array to be approximately 16' in diameter. Staff does not anticipate any substantive visual impact versus the currently allowed antenna array, particularly as the monopole is located directly adjacent to a heavy rail line and is not immediately abutting to any lower intensity

residential uses that would have a direct view of the array. Further, the surrounding properties can be developed up to a height of 60' (properties to the west and north) and up to 90' (properties to the south).

The larger antenna array is intended to serve the increasing cellular service needs of the area. A smaller array would not serve as large of an area or as many users and would likely result in the need for additional monopoles elsewhere in the area. The Conditional Use approval limiting the array size was made at a time of lower cellular usage than today (2001). Allowing the antenna array size to be increased reduces the need for additional monopoles or other antenna structures in the area.

### 2. Federal Regulation Impact - 47 CFR § 1.6100

Federal regulations limit the ability of the City to limit the size of cellular antenna replacements. Specifically, Federal regulations in 47 CFR \$ 1.6100 prohibit municipalities from denying antenna replacements that do not protrude from the tower by more than twenty feet (see subsection (b)(7)(ii)). This is further clarified in the FCC's Declaratory Ruling FCC-20-75. In this case, the antennas protrude from the tower approximately 7' at their maximum, with a total diameter of approximately 16.5' feet. Although City Code limits the area of an antenna array to a 13' diameter by 8' in height virtual cylinder area, the federal regulation allowing for antenna protrusions of up to twenty feet pre-empts the City's size limits. Therefore, the 16' diameter antennas cannot be prohibited by the City and must be approved.

### **Public Input**

The following public notices were sent out early in the public process:

- Mailed notice to property owner and tenants within 300' of proposal on May 18.
- Notice sent to Recognized Community Organizations (Capitol Hill and Fairpark) on May 18.
- Notice sign posted on May 18.

No public input has been received on the proposal.

See <u>Attachment F</u> for public hearing noticing information.

### **DISCUSSION:**

The monopole and antenna array are allowed as a conditional use. The use should be approved if reasonable conditions are proposed, or can imposed, to mitigate the reasonably detrimental effects of the proposed use.

The proposed use meets the Conditional Use standards and Detrimental Effects Determination as analyzed and discussed in <u>Attachment E</u> of this report. No significant and unmitigable detrimental impacts are anticipated and as such, the conditional use should be approved by the Administrative Hearing Officer.

### **NEXT STEPS:**

If the conditional use is approved, the applicant will be required to obtain all necessary building permits for the project.

# Vicinity Map



Salt Lake City Planning Division 7/15/2021

## **ATTACHMENT B: SITE PHOTOS**



*View of existing monopole (antenna and support structures currently ~8' in diameter)* 



View of property to the north



View of site showing existing antenna from across the street



View of the middle of the site from across the street



View of the site, with multifamily building to the west end of the propertys



View of the monopole and associated equipment within the fenced lease area.



View northward toward the monopole from the south end of the property, showing heavy rail line and parking structure to the east

## ATTACHMENT C: APPLICATION NARRATIVE AND PLANS



116 Inverness Dr E, Ste. 300 Englewood, CO 80112 Phone: (801) 979-9077 www.crowncastle.com

March 19, 2021

CITY OF SALT LAKE, UT Planning Division John Anderson 451 SOUTH STATE STREET, ROOM 406 SALT LAKE CITY, UT 84111

Via Electronic Submittal

### \*\*\*\*\*\*\*\*\*NOTICE OF ELIGIBLE FACILITIES REQUEST\*\*\*\*\*\*\*\*\*

RE: Request for Minor Modification to Existing Wireless Facility – Section 6409
Site Address: 523 WEST 200 NORTH, SALT LAKE CITY, UT 84116
Crown Site Number: 880560 / Crown Site Name: NORTH TEMPLE STORAGE
Customer Site Number: SL04278A / Application Number: 537347

Dear John Anderson:

On behalf of Sprint PCS ("Applicant"), Crown Castle USA Inc. ("Crown Castle") is pleased to submit this request to modify the existing wireless facility noted above through the collocation, replacement and/or removal of the Applicant's equipment as an eligible facilities request for a minor modification under Section 6409<sup>1</sup> and the rules of the Federal Communications Commission ("FCC").<sup>2</sup>

Section 6409 mandates that state and local governments must approve any eligible facilities request for the modification of an existing wireless tower or base station that does not substantially change the physical dimensions of such tower or base station. If a state or local government, fails to issue any approvals required for this request within 60 days, these approvals are deemed granted. The FCC has clarified that the 60 day deadline begins when an applicant: (1) takes the first step required under state or local law; and (2) submits information sufficient to inform the jurisdiction that this modification qualifies under the federal law. Please note that with the submission of this letter and enclosed items, the sixty day review period has started. Based on this filing, the deadline for issuance of approval is May 18, 2021.

The proposed scope of work for this project includes:

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<sup>&</sup>lt;sup>1</sup> Middle Class Tax Relief and Job Creation Act of 2012, Pub. L. No. 112-96, § 6409 (2012) (codified at 47 U.S.C. § 1455).

<sup>&</sup>lt;sup>2</sup> Acceleration of Broadband Deployment by Improving Wireless Facility Siting Policies, 29 FCC Rcd. 12865 (2014) (codified at 47 CFR § 1.6100); and Implementation of State & Local Governments' Obligation to Approve Certain Wireless Facility Modification Requests Under Section 6409(a) of the Spectrum Act of 2012, WT Docket No. 19-250 (June 10, 2020).



Add or replace antennas, ancillary equipment and ground equipment as per plans for an existing carrier on an existing wireless communication facility. No tower height extension or compound expansion proposed.

At the end of this letter is a checklist of the applicable substantial change criteria under Section 6409. Additionally, please find enclosed the following information in support of this request:

- (1) T-Mobile Project: Sprint Retain;
- (2) Construction Drawings;
- (3) Structural Analysis; and
- (4) Section 6409 Substantial Change Checklist.

As these documents indicate, (i) the modification involves the collocation, removal or replacement of transmission equipment; and (ii) such modification will not substantially change the physical dimensions of such tower or base station. As such, it is an "eligible facilities request" as defined in the FCC's rules to which the 60 day deadline for approval applies. Accordingly, Applicant requests all authorization necessary for this proposed minor modification under Section 6409.

Our goal is to work with you to obtain approvals earlier than the deadline. We will respond promptly to any request for related information you may have in connection with this request. Please let us know how we can work with you to expedite the approval process. We look forward to working with you on this important project, which will improve wireless telecommunication services in your community using collocation on existing infrastructure. If you have any questions, please do not hesitate to contact me.

Regards,

### Craig Chagnon

Craig Chagnon Site Acquisition Specialist Crown Castle Agent for Applicant (801) 979-9077 Craig.Chagnon@crowncastle.com



### Section 6409 Substantial Change Checklist Towers Outside of the Public Right of Way

The Federal Communications Commission has determined that a modification substantially changes the physical dimension of a wireless tower or base station under 47 U.S.C. § 1455(a) if it meets one of six enumerated criteria under 47 C.F.R. § 1.6100.

YES/NO	Does the modification increase the height of the tower by more than
	the greater of:
NO	(a) 10%; or
	(b) the height of an additional antenna array plus separation of
	up to 20 feet from the top of the nearest existing antenna?
YES/NO	Does the modification add an appurtenance to the body of the tower
	that would protrude from the edge of the tower more than 20 feet or
NO	more than the width of the tower structure at the level of the
	appurtenance, whichever is greater?
YES/NO	Does the modification involve the installation of more than the
	standard number of new equipment cabinets for the technology
NO	involved or add more than four new equipment cabinets?
YES/NO	Does the modification entail any excavation or deployment outside
	the current site by more than 30 feet in any direction, not including
NO	any access or utility easements??
YES/NO	Does the modification defeat the concealment elements of the
NO	eligible support structure?
YES/NO	Does the modification violate conditions associated with the siting approval
NO	with the prior approval the tower or base station other than as specified in 47
	C.F.R. § $1.6100(c)(7)(i) - (iv)?$

### Criteria for Towers Outside the Public Rights of Way

If all questions in the above are area answered "NO," then the modification does <u>not</u> constitute a substantial change to the existing tower under 47 C.F.R. § 1.6100.

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### T-MOBILE SITE NUMBER: SL04278A SL03XC214 RETAIN T-MOBILE SITE NAME: SITE TYPE: MONOPOLE **TOWER HEIGHT:** 82-6" T-MOBILE PROJECT: SPRINT RETAIN

SL04278A\_SL03XC214 Retain Sprint Retain FCD Coal Creek 02.23.21

### SITE INFORMATION PROPERTY INFORMATION: SITE ADDRESS 523 W 200 N SALT LAKE CITY, UT 84116 COUNTY: SALT LAKE 40° 46' 24.30" N (40.773444°) LATITUDE (NAD83) LONGITUDE (NAD83); 111° 54' 20.50" W (-111.905722°) GROUND ELEVATION (NAVD88): +4235 56' AMSL SALT LAKE COUNTY JURISDICTION APN: ##-###-##### ZONING: OCCUPANCY CLASSIFICATION: U LEGAL DESCRIPTION: SEE SHEET A-1 CONSTRUCTION INFORMATION: EXISTING AREA OF CONSTRUCTION: TYPE OF CONSTRUCTION. V-B UNMANNED TELECOMMUNICATIONS PROPOSED USE FACILITY HANDICAP REQUIREMENTS: FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS NOT REQUIRED. PROPERTY OWNER: COMPANY: SPRINT RECTRUM 51105 WEST SOUTH SUITE 4A ADDRESS CITY, STATE, ZIP: SALT LAKE CITY, UT 84114 TOWER OPERATOR: CROWN CASTLE USA, INC. COMPANY ADDRESS 1505 WESTLAKE AVE N. SUITE 800 SEATTLE, WA 98109 CITY, STATE, ZIP APPLICANT COMPANY: T-MOBILE ADDRESS 12920 SE 38TH ST CITY, STATE, ZIP:

BELLEVUE, WA 98006 CROWN CASTLE USA, INC. REPRESENTATIVE: ADDRESS 1505 WESTLAKE AVE N. SUITE 800 CITY, STATE, ZIP: SEATTLE, WA 98109 CONTACT **KELSEY PUHALLA** PHONE: (206) 336-2874 E-MAIL: kelsey.puhalla@crowncastle.com

### **PROJECT TEAM**

ARCHITECTURAL & EN	IGINEERING:
COMPANY:	INFINIGY ENGINEERING, PLLC
CONTACT:	PAUL DANNEBERG
PHONE:	(206) 375-3798
E-MAIL:	pdanneberg@infinigy.com
SITE ACQUISITION:	
COMPANY:	CROWN CASTLE USA, INC.
ADDRESS:	1505 WESTLAKE AVE N, SUITE 800
CITY, STATE, ZIP:	SEATTLE, WA 98109
CONTACT:	KELSEY PUHALLA
PHONE:	(206) 336-2874
E-MAIL:	kelsey.puhalla@crowncastle.com
CONSTRUCTION MANA	AGEMENT:
COMPANY:	CROWN CASTLE USA, INC.
CONTACT:	JEFFREY LEE
PHONE:	(801) 347-6768
E-MAIL:	jeffrey.lee@crowncastle.com

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OPS MANAGER

REGULATORY REVIEW

PROJECT MANAGER

# **T** Mobile



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UNLESS SPECIFICALLY NOTED OTHERWISE BY T-MOBILE.

CONTRACTOR SHALL PREPARE ALL SURFACES AND

INSTRUCTIONS REGARDING SUFFICIENT DRYING TIME

4. FINISH COLOR AND TEXTURE OF ALL PAINTED SURFACES

SHALL MATCH EXISTING ADJACENT SURFACES UNLESS

ALL PAINT MATERIAL DATA SHEETS SHALL BE PROVIDED

BETWEEN COATS WITH PROVISIONS AS RECOMMENDED

APPLY ALL FINISHES PER LATEST EDITION OF

COMPLY WITH MANUFACTURER'S WRITTEN

BY MANUFACTURER FOR EXISTING WEATHER

TO THE T-MOBILE CONSTRUCTION MANAGER

6. PREPARE PREVIOUSLY PAINTED SURFACE BY LIGHT

MANUFACTURER'S SPECIFICATIONS.

OTHERWISE NOTED BY T-MOBILE.

C. COATING SYSTEM SPECIFICATIONS

PRIMER - KEM AQUA E61-W525

PRIMER - KEM AQUA E61-W525

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1

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DTM ACRYLIC COATING (SERIES B66) BY SHERWIN

2. 100% ACRYLIC, LATEX COATING EQUIVALENT TO A-100

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COAT APPLIED IN TWO COATS OVER SPECIFIED PRIMER

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TOPCOAT - COROTHANE II B65W200/B60V22

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A. GENERAL

CONDITIONS

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- THE LATEST EDITION OF THE AMERICAN INSTITUTE OF ARCHITECTS DOCUMENT A201 "GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION" ARE INCLUDED IN THESE SPECIFICATIONS AS IF COMPLETELY REPRODUCED HEREIN.
- 2. THIS FACILITY IS AN UNOCCUPIED PCS TELECOMMUNICATIONS SITE AND IS EXEMPT FROM ADA ACCESS REQUIREMENTS.
- PRIOR TO SUBMISSION OF BIDS, THE CONTRACTORS 3 PARTICIPATING SHALL VISIT THE JOB SITE WITH THE CONSTRUCTION AND CONTRACT DOCUMENTS TO CONFIRM THAT THE PROJECT CAN BE ACCOMPLISHED AS DESIGNED HEREIN, AS WELL AS TO FAMILIARIZE THEMSELVES WITH ALL FIELD CONDITIONS AFFECTING THE PROPOSED PROJECT INCLUDING DEMOLITION ELECTRICAL, MECHANICAL AND STRUCTURAL INSTALLATIONS PRIOR TO PROCEEDING WITH CONSTRUCTION. SHOULD ANY ERRORS, OMISSION, OR DISCREPANCIES BE FOUND, THE GENERAL CONTRACTOR SHALL IMMEDIATELY NOTIFY IN WRITING, THE T-MOBILE CONSTRUCTION MANAGER AND THE ARCHITECT.

- 12. THE CONTRACTOR SHALL PROVIDE CONTINUOUS SUPERVISION AND DIRECT ALL WORK WHILE ANY SUBCONTRACTORS OR WORKERS ARE ONSITE USING HIS OR HER BEST SKILL AND ATTENTION. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, PROCEDURES, SEQUENCES, AND COORDINATION OF ALL PORTIONS OF THE CONTRACTED WORK
- 13. WORKMANSHIP THROUGHOUT SHALL BE OF THE BEST QUALITY OF THE TRADE INVOLVED, AND SHALL MEET OR EXCEED THE FOLLOWING MINIMUM REFERENCE STANDARDS FOR QUALITY AND PROFESSIONAL CONSTRUCTION PRACTICE:
- NRCA NATIONAL ROOFING CONTRACTORS ASSOCIATION O'HARE INTERNATIONAL CENTER 10255 W. HIGGINS ROAD, SUITE 600 ROSEMONT, IL 60018-5607
- SMACNA SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION 4201 LAFAYETTE CENTER DRIVE

- COMPLETION OF WORK.
- ALVANIZED.
- - Y T-MOBILE.

23. THE LATEST EDITION OF ALL PERMITTED AND APPROVED PLANS PERTAINING TO THIS PROJECT SHALL BE KEPT IN A PLAN BOX AND SHALL NOT BE USED BY WORKERS ALL CONSTRUCTION SETS SHALL REFLECT THE SAME INFORMATION. THE CONTRACTOR SHALL ALSO MAINTAIN IN GOOD CONDITION, ONE COMPLETE SET OF PLANS WITH ALL REVISIONS, ADDENDA AND CHANGE ORDERS ON THE PREMISES AT ALL TIMES. THESE ARE TO BE UNDER THE CARE OF THE CONSTRUCTION SUPERINTENDENT

24. THE CONTRACTOR SHALL REMOVE ALL RUBBISH AND WASTE MATERIALS ON A DAILY BASIS, EXCEPT FOR THAT SPECIFIED AS THE PROPERTY OF THE BUILDING OR PROPERTY OWNER AND SHALL EXERCISE STRICT CONTROL OVER SITE CLEANING THROUGHOUT CONSTRUCTION AND FINAL CLEAN-UP UPON COMPLETION OF WORK, ALL AREAS ARE TO BE LEFT IN A BROOM CLEAN CONDITION AT THE END OF EACH DAY THEN AT A VACUUM CLEAN CONDITION, FREE FROM PAINT SPOTS, DUST OR SMUDGES OF ANY NATURE AT

25 THE GENERAL CONTRACTOR MUST PERFORM WORK URING PROPERTY OWNER'S PREFERRED HOURS TO VOID DISRUPTION OF NORMAL ACTIVITY.

LL EXPOSED METAL SHALL BE HOT-DIPPED

EAL ALL PENETRATIONS THROUGH FIRE-RATED AREAS /ITH U.L. LISTED OR FIRE MARSHALL APPROVED ATERIALS IF AND WHERE APPLICABLE TO THIS FACILITY ND PROJECT SITE.

ROVIDE A PORTABLE FIRE EXTINGUISHER WITH A ATING OF NOT LESS THAN 2-A OR 2-A10BC WITHIN 75 EET TRAVEL DISTANCE TO ALL PORTIONS OF THE ROJECT AREA UNDER CONSTRUCTION.

LECTRICAL POWER SYSTEM SHALL BE GROUNDED PER EC ARTICLES 250 AND 810.

LL NEW OPENINGS IN THE EXTERIOR ENVELOPE OF ONDITIONED SPACES SUCH AS AT WALL AND ROOF ENETRATIONS SHALL BE CAULKED OR SEALED TO LIMIT VELTRATION OF AIR AND MOISTURE

PON COMPLETION OF CONSTRUCTION, T-MOBILE ONSTRUCTION MANAGER SHALL CONDUCT A ALK-THRU WITH PROPERTY OWNER OR EPRESENTATIVE OF PROPERTY OWNER.

HE CONTRACTOR SHALL BE RESPONSIBLE FOR AINTAINING ALL SYSTEM EQUIPMENT IN A CLEAN ORKING ORDER UNTIL ACCEPTANCE OF THE PROJECT

NSTALL ALL EQUIPMENT AND MATERIALS PER THE ATEST EDITION OF THE MANUFACTURER'S NSTALLATION SPECIFICATIONS UNLESS SPECIFICALLY THERWISE INDICATED OR WHERE LOCAL CODES OR EGULATION TAKE PRECEDENCE

**T** Mobile 12920 SE 38TH ST

BELLEVUE, WA 98006



1505 WESTLAKE AVE N. SUITE 800 SEATTLE, WA 98109

FROM ZERO TO INFINIGY the solutions are endless

BELLEVUE, WA 98004

T-MOBILE SITE: SL04278A SL03XC214 RETAIN

CROWN CASTLE SITE: 880560 NORTH TEMPLE STORAGE

523 W 200 N SALT LAKE CITY, UT 84116 SALT LAKE COUNTY

82-6" MONOPOLE

DRAWINGS ISSUED FOR:									
REV.	DATE	DRAWN	DESCRIPTION	QA/QC					
А	02/23/21	RCD	PRELIMINARY REVIEW	PD/HL					
0	02/23/21	RC	100% CONSTRUCTION	PD					
(									



	A.	GENERAL	C.	CONCRETE	13.	ANCHORING
	1.	PRECEDENCE: UNLESS OTHERWISE SHOWN OR SPECIFIED, THE FOLLOWING GENERAL NOTES SHALL APPLY, INFORMATION ON THESE DRAWINGS SHALL HAVE	1.	STRENGTH: CONCRETE FOR THE PROJECT SHALL HAVE THE FOLLOWING ULTIMATE COMPRESSIVE STRENGTH AT AGE OF 28 DAYS:		POSITION P REPOSITION
		THE FOLLOWING PRECEDENCE. A. ALL DIMENSIONS TO TAKE PRECEDENCE OVER SCALE SHOWN ON PLANS, SECTIONS AND DETAILS.		LOCATION STRENGTH WT. SLUMP ADMIXTURE SLAB&FOOTING 3000psi 150pcf 4"	14.	SLABS SHAL IMMEDIATEL USED ON CO IS TO BE BO
		B. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.	2.	NONE INSPECTION: CONCRETE WITH SPECIFIED STRENGTH GREATER THAN 2500psi SHALL BE CONTINUOUSLY		APPROVED MANUFACTU PERIOD.
		C. MATERIAL NOTES AND SPECIFICATIONS ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER THE SPECIFICATIONS.		INSPECTED DURING PLACEMENT BY A DEPUTY INSPECTOR EMPLOYED BY A TESTING LABORATORY APPROVED BY THE BUILDING DEPT.	15.	CONSOLIDA IT IS BEING VIBRATING
	2.	OTHER TRADES: SEE THE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS NOT SHOWN.	3.	REBAR GRADES: REINFORCING STEEL SHALL BE CLEAN PREFORMED BARS CONFORMING TO ASTM A615 AS FOLLOWS:	D. 1.	TIMBER ALL FRAMIN SHALL BE N
	3.	GENERAL DETAILS AND NOTES ON THESE SHEETS SHALL APPLY UNLESS SPECIFICALLY SHOWN OR NOTED OTHERWISE. CONSTRUCTION DETAILS NOT FULLY SHOWN OR NOTED SHALL BE SIMILAR TO DETAILS SHOWN EAD SIMILAR CONDITIONS	4	#4 & SMALLER BARSGRADE 40 #5 & LARGER BARSGRADE 60 ALL BARS AT CAISSON FOOTINGGRADE 60	2.	NOTED OTH ALL FRAMIN SHALL BE N
	4.	SHOWN FOR SIMILAR CONDITIONS. SHORING: IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL ALL TEMPORARY BRACING AND SHORING TO INSTIRE THE SAFETY OF THE WORK	4.	CONFORMING TO ASTM C-150. PIER/CAISSON FOOTINGS: TYPE V, LOW ALKALI, CONFORMING TO ASTM C-150.	3.	STRIPPING, NON-STRUC
	E	UNTIL IT IS COMPLETED. THIS INCLUDES UNDERPINNING EXISTING FOOTINGS WHERE APPLICABLE.	υ.	TO ASTM C-33. USE ONLY AGGREGATES KNOWN NOT TO CAUSE EXCESSIVE SHRINKAGE. THE MAXIMUM SIZE AGGREGATE IN CONCRETE WORK SHALL BE THE FOLLOWING:	4.	ALL BEAMS,
	5.	STRUCTURE. UNLESS OTHERWISE INCLASS ON THE FINISHED ON NOT INDICATE THE METHOD OF CONSTRUCTION.	А. В.	FOUNDATIONS & SLABS 9" OR LESS: 3/4" GRAVEL PIER/CAISSON FOOTING: 1" GRAVEL.	5.	ROOF PLYW SHEATHING
	0.	DETAILS OR SPECIFICATIONS SHOWN IN THESE DRAWINGS ARE FOR GENERAL INFORMATIONAL PURPOSES ONLY. CONTRACTOR TO NOTIFY THE T-MOBILE CONSTRUCTION MANAGED AND THE	6.	SHALL BE CLEAN AND FREE FROM DELETERIOUS AMOUNT OF ACIDS, ALKALIS, ORGANIC MATERIALS AND SHALL BE SUITABLE FOR HUMAN CONSUMPTION.	6.	FIELD NAIL V
	В	ARCHITECT IF ANY INADEQUATE OR IMPROPER CONDITIONS.	7.	MIXING: PREPARATION OF CONCRETE SHALL CONFORM TO ASTM C-94. NO MORE THAN 90 MINUTES SHALL ELAPSE BETWEEN CONCRETE BATCHING AND CONCRETE DI ACEMENT LINI ESS ADPPOVED BY A TESTING ACENCY	7	PLANS.
	<sup>В.</sup>	ALL STRUCTURAL STEEL SECTIONS AND WELDED PLATE	8.	SEGREGATION OF AGGREGATES: CONCRETE SHALL NOT	7.	PTL AND SH
		MEMBERS SHALL CONFORM TO ASTM A-36 AND BE FABRICATED IN ACCORDANCE WITH THE SPECIFICATIONS OF THE AISC.		BE FLOPPED THROUGH REINFORCING STEEL (AS IN WALLS, COLUMNS, CAISSON, AND DROP CAPITALS) SO AS TO CAUSE SEGREGATION OF AGGREGATES. USE HOPPERS, CHUTES, TRUNKS OR PUMP HOSE SO THAT	8. 9.	THE MAXIMU SHALL NOT MINIMUM NA
	2.	ALL BOLTS SHALL CONFORM TO ASTM A-307 UNLESS OTHERWISE NOTED ON PLANS. HIGH STRENGTH BOLTS SHALL CONFORM TO ASTM A-325	9.	THE FREE UNCONFINED FALL OF CONCRETE SHALL NOT EXCEED 5 FT. SPLICES OF REINFORCING STEEL SHALL BE LAPPED A	10.	BUILDING CONAILS.
	3.	STEEL PIPE COLUMNS SHALL BE GRADE "B" CONFORMING TO ASTM A53. STEEL TUBING SHALL BE GRADE "B" CONFORMING TO		MINIMUM OF 30 DIAMETERS AND SECURELY WIRED TOGETHER. SPLICES OF ADJACENT REINFORCING BARS SHALL BE STAGGERED WHEREVER POSSIBLE.	11.	UNDER HEA WOOD.
	5.	ASTM 4500. ALL WELDING SHALL BE DONE BY THE SHIELDED ARC METHOD, ALL WELDERS SHALL BE PROPERLY OLIALIEED.	10.	REAR CLEARANCE: MINIMUM COVERAGE FOR JOISTS, BEAMS, GIRDERS AND COLUMNS SHALL BE TO FACE OF STIRRUPS OR TIES. UNLESS OTHERWISE NOTED, CONCRETE COVERAGE FOR REINECORCING BARS TO		DRIVEN. LAC PRE-DRILLE DIAMETER C
		AND BE PRE-APPROVED. SURPLUS METAL SHALL BE DRESSED OFF TO SMOOTH, EVEN SURFACES WHERE WELDS ARE NOT EXPOSED TO VIEW. ALL WELDING SHALL COMPLY WITH THE LATEST A W.S. SPECIFICATIONS		FACE OF BAR SHALL BE AS FOLLOWS: A. CONCRETE IN CONTACT WITH EARTH, UNFORMED 3"	12.	CONNECTOR CONNECTOR CONNECTOR
	6.	THE FOLLOWING WELDING EQUIPMENT MUST BE USED: A. 250 AMP WELDERS. B. ROD OVENS.		<ul> <li>B. CONCRETE IN CONTACT WITH EARTH, FORMED 2"</li> <li>C. WALL, EXTERIOR FACE 1-1/2"</li> <li>D. WALL, INTERIOR FACE 1"</li> <li>E. STRUCTURAL SLABS 3/4"</li> </ul>	13.	APPROVED ALL LUMBER WITH MASO
		C. GRINDERS.		F. JOISTS 3/4" G. BEAMS, GIRDERS & COLUMNS 1-1/2"		PRESSURE
	7. Ω		11.	PENETRATIONS: NO SLEEVES OR CHASES SHALL BE	14.	
	0.	CERTIFICATION. MILL CERTIFICATION SHALL BE KEPT ON THE JOB SITE FOR EXAMINATION BY THE DESIGN ENGINEER AND THE CITY INSPECTOR.		EXCEPT THOSE SHOWN ON THE PLANS. CONTRACTOR SHALL OBTAIN PRIOR APPROVAL FOR INSTALLATIONS OF ANY ADDITIONAL SLEEVES OR CHASES. ALL PLUMBING, ELECTRICAL AND MECHANICAL OPENINGS SHALL RE		CONFO B. STRENC Fb BOT Fb TOP
	9.	ALL HIGH STRENGTH BOLTS SHALL HAVE MILL CERTIFICATION. MILL CERTIFICATION SHALL BE KEPT ON THE JOB SITE FOR EXAMINATION BY THE INSPECTOR.		SLEEVES. CORING IS NOT ALLOWED UNLESS PRIOR APPROVAL IS OBTAINED FROM THE STRUCTURAL ENGINEER.		Fv SHE/ Fc COM GRAIN S
	10	D. STEEL THAT HAD BEEN WELDED, CUT OR SCRATCHED IN THE FIELD SHALL BE TOUCHED UP WITH COLD GALVANIZING PAINT.	12.	EMBEDDED ITEMS: CONDUIT PLACED IN A CONCRETE SLAB SHALL NOT HAVE AN OUTSIDE DIAMETER GREATER THAN 1/4 THE THICKNESS OF THE SLAB. CONDUIT SHALL NOT BE EMBBEDED IN A SI AR THAT IS I ESS THAN 3-1/0"		D. CAMBEI E. ALL GLE GLUE. F. MANUE
	11	. WELDING INDICATED IN THESE DRAWINGS IS DESIGNED FOR ONE HALF OF ALLOWABLE CODE STRESSES UNLESS NOTED "FULL STRESS" AT END OF WELD SYMBOL.		THICK, UNLESS SLAB IS LOCALLY THICKENED. MINIMUM CLEAR DISTANCE BETWEEN COUNDUITS SHALL BE SIX INCHES.		UBC. G. GLU-LA ANSI/AI
2 NOT USED	1	STRUCTURAL SPECIFICATIO	NS	3		
	1					

G: ALL ANCHOR BOLTS, REINFORCING STEEL, ISERTS, ETC., SHALL BE WELL SECURED IN RIOR TO PLACING CONCRETE. NO NING DURING CONCRETE POUR IS ALLOWED.

LL BE SPRAYED WITH A CURING COMPOUND \_Y AFTER FINISHING. CURING COMPOUNDS DNCRETE WHERE TILE OR FLOOR COVERING INDED TO THE CONCRETE SURFACE SHALL BE BY THE TILE OR FLOOR COVERING JRER. KEEP SLAB WET FOR 7 DAY MINIMUM

TION: ALL CONCRETE SHALL BE VIBRATED AS PLACED WITH ELECTRICALLY OPERATED EQUIPMENT.

IG LUMBER FOR 4X AND LARGER BEAMS O. 1 GRADE DOUGLAS FIR., S45, UNLESS IERWISE.

NG LUMBER FOR 2X RAFTERS AND JOISTS IO.2 GRADE DOUGLAS FIR, S45, UNLESS IERWISE.

BLOCKING, BACKING AND OTHER CTURAL LUMBER SHALL BE NO. 2 OR STD & DOUGLAS FIR, S45. 2X4 STUD WALLS SHALL NDARD & BTR.

, JOISTS AND RAFTERS SHALL BE INSTALLED VN SIDE UP.

/OOD SHALL MATCH EXISTING PLYWOOD 5 WITH A SPAN INDEX RATIO 32/16. EDGE NAIL 6" O.C. UNLESS NOTED OTHERWISE ON PLANS. WITH 8d AT 12" O.C.

CHEETS SHALL BE LAID WITH THE FACE GRAIN ULAR TO SUPPORTS AND WITH THE EDGES D, UNLESS NOTED OTHERWISE ON THE

SHALL BE GRADE MARKED BY DFPA, TECO, OR IALL CONFORM TO PS 1-83.

UM MOISTURE CONTENT OF ALL LUMBER EXCEED 24% AT THE TIME OF INSTALLATION.

AILING SHALL COMPLY WITH TABLE 23-1-q OF ODE. ALL NAILS SHALL BE COMMON WIRE

SHALL HAVE STANDARD CUT WASHERS IDS AND/OR NUTS WHERE IN CONTACT WITH

SHALL BE SCREWED INTO PLACE, NOT G BOLTS SHALL BE INSTALLED IN ED HOLES WITH A DIAMETER EQUAL TO 75% OF BOLT.

IRS: ALL SHEET METAL FRAMING IRS SHOWN IN THE PLANS SHALL BE STRONG IRS AS MANUFACTURED BY THE SAMSON SUBSTITUTIONS MAY BE MADE WHEN BY THE STRUCTURAL ENGINEER.

R EXPOSED TO WEATHER OR IN CONTACT NRY OR CONCRETE SHALL BE WOLMANIZED TREATED LUMBER OR A NATURALLY DECAY LUMBER SUCH AS REDWOOD OR CEDAR.

YELLOW CEDAR GLUE-LAMINATED BEAMS R SPECIES: ALASKAN YELLOW CEDAR (A.C.) JRMING TO 20F-V12 IGTH PROPERTIES:

TOM FIBER BENDING STRESS 2000psi MIN. FIBER BENDING STRESS 1000psi MIN.

AR STRESS 190psi MIN. IPRESSION STRESS PERPENDICULAR TO

560psi MIN. US ELASTICITY 1400ksi MIN.

R TO RADIUS OF 1600° U.O.N.

B'S SHALL BE FABRICATED WITH EXTERIOR

ACTURE OF GLB'S SHALL CONFORM TO THE

M MATERIAL SHALL BE IN ACCORDANCE WITH TC A190.1 AND ASTM D3737.

# **T** Mobile<sup>•</sup>

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1505 WESTLAKE AVE N, SUITE 800 SEATTLE, WA 98109

FROM ZERO TO INFINIGY the solutions are endless

BELLEVUE, WA 98004

T-MOBILE SITE: SL04278A SL03XC214 RETAIN

CROWN CASTLE SITE: 880560 NORTH TEMPLE STORAGE

523 W 200 N SALT LAKE CITY, UT 84116 SALT LAKE COUNTY

82-6" MONOPOLE

DRAWINGS ISSUED FOR:									
REV.	DATE	DRAWN	DESCRIPTION	QA/QC					
А	02/23/21	RCD	PRELIMINARY REVIEW	PD/HL					
0	02/23/21	RC	100% CONSTRUCTION	PD					



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UNT	MOUNT	RFDS	RAD	ANTE	NNA				RRH		TMA/COMBINER/FILTER		HYBRID CABLE (H	CS)	COAX CABLE	
ECTOR	POSITION	POSITION	CENTER	MODEL	SIZE	AZIMUTH	M. TILT	QTY.	MODEL	QTY.	MODEL	QTY.	TYPE	LENGTH QTY.	TYPE	LENGTH
			76'-0"	ET-X-WM-18-65-8P	61.0"	110°		1	RRH-C2A (800)	1	8T8R 2.5G (2500 MHz)					
ALPHA			76'-0"	ET-X-TS-70-15-62-18-IR-RD	56.0"	110°		1,1	RRH-P4 (1900), RRH-V3 (2500)							
			76'-0"	ET-X-WM-18-65-8P	61.0"	230°		1	RRH-C2A (800)							
DETA												2	1 7/16"	+127' 0"		
DETA			76'-0"	ET-X-TS-70-15-62-18-IR-RD	56.0"	230°		1,1	RRH-P4 (1900), RRH-V3 (2500)			3	1-7/10	127-0		
			76'-0"	ET-X-WM-18-65-8P	61.0"	350°		1	RRH-C2A (800)							
			76'-0"	ET-X-TS-70-15-62-18-IR-RD	56.0"	350°		1,1	RRH-P4 (1900), RRH-V3 (2500)							
PROPO	SED AN		/ CABL	E SCHEDULE					DDU					CS)		
		REDS		ANTE				OTV		OTV		OTV				
				INIODEL	SIZE	AZIIVIUTH		QTT.	MODEL	QTT.	MODEL	QTT.	TTPE	LENGIN QIT.	TTPE	LENGT
SECTOR		A 1	76' 0"	AID22 D2A/D66AA (KDD001046 1)	75.0"	2200	<b>n</b> 0									
SECTOR		A1	76'-0"	AIR32 B2A/B66AA (KRD901046-1)	75.8"	330°	<u>0°</u>		 <i>A A A A A A A A A A</i>							
ALPHA		A1 A2	76'-0" 76'-0"	AIR32 B2A/B66AA (KRD901046-1) APXVAA4L24_43-U-NA20	75.8" 95.9"	330° 330°	0° 0°	 1,1,1	 4415 B66A,4415 B25,4449 B71+B8	5						
ALPHA		A1 A2 	76'-0" 76'-0" 	AIR32 B2A/B66AA (KRD901046-1) APXVAA4L24_43-U-NA20	75.8" 95.9" 	330° 330° 	0° 0° 	 1,1,1 	 4415 B66A,4415 B25,4449 B71+B8 	5						

	A3	760.	AIR6449 B41	33.1"	330°	0°			 					
	B1	76'-0"	AIR32 B2A/B66AA (KRD901046-1)	75.8"	120°	4°			 					
DETA	B2	76'-0"	APXVAA4L24_43-U-NA20	95.9"	120°	4°	1,1,1	4415 B66A,4415 B25,4449 B71+B85	 	4	HCS 6x24 4 AM/C (50m)	±127' 0"		
DETA									 	4	1105 0X24 4 AWG (3011)	1127 -0	 	
	B3	76'-0"	AIR6449 B41	33.1"	120°	4°			 					
	C1	76'-0"	AIR32 B2A/B66AA (KRD901046-1)	75.8"	240°	0°			 					
CAMMA	C2	76'-0"	APXVAA4L24_43-U-NA20	95.9"	240°	0°	1,1,1	4415 B66A,4415 B25,4449 B71+B85	 					
GAIVIIVIA									 					
	C3	76'-0"	AIR6449 B41	33.1"	240°	0°			 					

NOTE: MOUNT SECTORS ARE CLOCKWISE. RFDS POSITIONS ARE THE ANTENNA POSITIONS LISTED IN THE RFDS, AND MAY DIFFER FROM THE ORDER IN WHICH EXISTING ANTENNAS ARE INSTALLED. THE METHOD FOR WHAT ORDER ANTENNAS ARE LISTED IN THE RFDS VARIES DEPENDING ON THE MARKET.



(	)
<b>T</b> Mobil	<b>e</b> .
12920 SE 38TH ST BELLEVUE, WA 98006	
1505 WESTLAKE AVE N, SUITE SEATTLE, WA 98109	VN LE
FROM ZERO TO INFI the solutions are BELLEVUE, WA 98004	NIGY endless
T-MOBILE SITE: SL04278A SL03XC214 RETAIN	۱
CROWN CASTLE SIT 880560 NORTH TEMPLE STOR	E: AGE
523 W 200 N SALT LAKE CITY, UT 84 SALT LAKE COUNT	4116 Y
82-6" MONOPOLE	J
DRAWINGS ISSUED FOR:	QA/QC
A         02/23/21         RCD         PRELIMINARY REVIE           0         02/23/21         RC         100% CONSTRUCTION	EW PD/HL DN PD
	$\blacksquare$
No. 8391625-2202 CHRISTOPHER J. WARREN	ADDODODODODODODODODODODODODODODODODODOD
2/23/21	COCODI
SHEET TITLE:	$\equiv$
ANTENNA PLANS & RF SCHEDULES	
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PECT OF THESE DRAWINGS WITHOUT THE WRITTEN APPROVAL OF THE PROFESSIONAL OF RECORD.

(1) 3.0" TRADE SIZE KNOCKOUT LOAD DISTRIBUTION 200 AMP, 1 PHASE/3 WIRE GENERATOR INPUT RECEPTACLE (EMERGENCY SOURCE #1) MALE CAM-LOK JACKS TO MATE WITH CUSTOMER PROVIDED FEMALE PLUG SETS TYPE 3R ENCLOSURE. PANELBOARD (SQUARE-D) (NQ) 200 AMP MAX. (42 CIRCUITS) POWER COMPARTMENT INTERIOR SWING PANEL 28.50 -9.63-OPTIONAL ACC. 4AR NORMAL SOURCE "UTILITY" INPUT VOLTAGE SENSING RELAY -22 00 me ACCESSORY 130PC - INTERSECT PN ICGC-1P-CBL INCLUDES DEUTSCH CONNECTOR -10.00----OPTIONAL ACC. 23 GA SHORTING BLOCKS 4.00 m 4.36 BRANCH CIRCUIT GROUND TERMINALS OPTIONAL ACC. 72EE OR 72VE ETHERNET MODULE. SIDEWALL MOUNTED. 17.25 2.00 3.00 3.00 2.00 (8) .75" TRADE SIZE ~ OPTIONAL ACC. 18BG RELAY EXPANSION MODULE -SIDEWALL MOUNTED. TH  $\bigcirc$ IEUTRAL BONDING JUMPER (SHIPPED DISCONNECTED) TRANSFER SWITCH STATUS INDICATION & CONTROL INTERFACE TRANSFER SWITCH CONTROLLER ASCO GROUP G CENERCE LEALENE EALENE EALENE EALENE 3.00 PADLOCKABLE 3 POINT LATCH 3.00 URGE SUPPRESSOR 42.00 TMP. Æ LOAD SIDE) (L-N,L-G) ASCO 510 (2) 1 PER PHASE BRANCH CIRCUIT NEUTRAL TERMINALS LOAD CENTER PHASE VOLTAGE STATUS INDICATOR (a) OPTIONAL ACC. 23GA CURRENT TRANSFORMERS GROUND TERMINATION ASSEMBLY 0.5" MOUNTING المعال HOLES (4) PLACES NORMAL SOURCE "UTILITY" MAIN DISCONNECT CIRCUIT BRAKER POWER DISTRIBUTION BLOCK PORTABLE / PERMANENT GENERATOR CIRCUIT BREAKERS MANUAL INTERLOCK (SQUARE-D) TYPE QGL (200 AMP) NEUTRAL BUS TERMINATION ASSEMBLY - EMERGENCY SOURCE #2 "PERMANENT GENERATOR" CIRCUIT BREAKER (SQUARE-D) TYPE QBL (200 AMP) ASCO D3ATS SERIES AUTOMATIC TRANSFER SWITCH 200 AMP 32.00 -41.88- 8.6 INCHES WIRE BENDING SPACE SUITABLE FOR UP TO (1) 250 MCM CONDUCTOR PER PHASE FRONT EXTERIOR DOORS REAR FRONT EXTERIOR DOORS FRONT WITH EXTERIOR REMOVED EXTERNAL, MASKED GROUNDING POINT . (2) .25–20 FASTENERS DOOR 80 TOP COMPARTMENT EMERGENCY SOURCE #1 "PORTABLE GENERATOR" CIRCUIT BREAKER (SQUARE-D) TYPE QBL (200 AMP) SWING PANEL 0.43" HOLES (4 PLACES) USED FOR SHIPPING. PLUGS PROVIDED FOR FIELD INSTALLATION. REMOVED 5.50 1.79 -F<sup>3.50</sup> 6.69 d. 1.50" TRADE SIZE KNOCKOUT TRADE SIZE KNOCKOUT (2) 2.00" TRADE SIZE KNOCKOUTS DRAIN PLUG - (2 PLACES) BOTTOM

Notes:			1
<ol> <li>Power Transfer Load Center constructed in accordance with UL 67 Standard for Paneboards Suitable for Use as Service Equipment.</li> </ol>	<ol> <li>Accessory 4AR (Optional) - Voltage Sensing Relay to indicate the presence of the Normal Source "Utility" voltage ahead of the Normal Source main disconnect circuit</li> </ol>	<ol> <li>Accessory 117/B (Standard) - Generator Selector Circuit Breakers (Emergency Source #1 &amp; Emergency Source #2) - One each two pole, 200A circuit breaker for two separate</li> </ol>	
<ol> <li>Automatic Power Transfer Switch: ASCO D3ATS, 2 Pole, 200 Amp, 240 Vac max. UL Listed to UL 1008 Standard for Transfer Switching Equipment.</li> </ol>	breaker, regardless of the position of the circuit breaker. 6) Accessory 11BE (Optional) - A Four-Function Software Bundle that provides the following functions;	generator inputs. UL 1008 approved manual side type interlock to permit connection of only one generator to the transfer switch Emergency Source input.	
Transfer Controller – ASCO Group G Automatic Transfer Switch Controller including: Automatic Engine Starting Contacts Single Phase voltage sensing of Normal and Emergency sources. Frequency sensing of Emergency source.	<ul> <li>Serial Communications (RS-485)</li> <li>Programmable Engine Exerciser with Battery Back-up</li> <li>Event Log</li> <li>Common alarm signal capability on group g controller "OP1" output.</li> </ul>	12) Accessory 130PC (Standard) – Generator Input Receptacle (Emergency Source #1) Rated 200 amps, 1 phase/3 wire with ground. Constructed with male Cam-Lok connectors, 1 per phase, neutral and ground. Color coded (Line 1-Black, Line 2-Red, Neutral-White, ground-Oreen). Accepts mating female plugs, (customer provided), for (1) #2-4/0 Cu conductor. Type 3R enclosure with bottom	
<ol> <li>Short Circuit Ratings: Accessory 11/CB10 (Standard)</li> <li>(<u>Mains</u>): Normal Source – 42kA at 240 Vac max. (Utility Main Disconnect circuit breaker), Square-D Cat. Type QG, 2 pole, 200 amps.</li> </ol>	7) Accessory 18BG (Optional) - Signals the availability of the Normal & Emergency sources when provided. Output contacts "RL5" (Emergency Source Available) and "RL6" (Normal Source Available) change position when the source is acceptable.		
Emergency Source #1 (Portable Generator Input circuit breaker) - <u>Using Standard Acc. 130PL Generator Input Receptacle:</u> 10kA at 240 Vac, INTERSECT PN ICGC-1P-CBL	<ol> <li>Accessory 23GA (Optional) - Single Phase Current Sensing Module with current transformers and shorting blocks. Phase current measurements are available for display on the Group G. Controller.</li> </ol>	13) Enclosure: Type 3R Listed to UL 50/50E & UL 67. Single Compartment Wall Mount Compartment provides Type 1 protection with exterior open and swing pages closed.	PROJECT NAME:
(UL 1008 Listed Transfer Switch Accessory) connected to Square-D Cat. Type QB, 2 Pole, 200 Amps.	9) Accessory 72EE OR 72VE (Optional) - ASCO 5140 Ethernet Connectivity Module. Provides remote ATS and	Box & Doors - Constructed of 0.095 thick aluminum alloy (5052-H32). Finishes - All interior and exterior surfaces: Textured Polyester Powder Coat, Light Gray	OUTLINE and MOUNTING
Emergency Source #2 (Permanent Generator Input circuit breaker) — 10kA at 240 Vac, Square-D Cat. Type QB, 2 Pole, 200 Amps.	Generator control, Monitoring and Connectivity Features via integrated web page dashboards.	D300L SERIES, SINGLE PHASE, 20 POWER TRANSFER LOAD CENTER	
( <u>Branch</u> ): Branch ratings as follows when used with the specified branch devices. 42KA using Sq-D QH or QHB rated: 1 pole 15-30a, 2 pole 15-30a, 3 pole 15-30a.	<ol> <li>Accessory 73TL1 (Standard) - Transient Surge Protection - Connected to line side of panelboard for L-N (L-G if used as service equipment) mode protection. ASCO 510 Series TVSS with phose monitoring and load phose whole a whole a visit phose monitoring and load phose whole a visit phose whole a visit phose monitoring and load phose whole a visit phose whole a</li></ol>	<ol> <li>Grounding provisions for Normal, Emergency &amp; Load.</li> <li>Overall Dimensions:</li> </ol>	BY DATE MANUFACTURING TOLEI DRAWN BY DL 06/14 FOR PLASTIC PARTS
22KA using Sq-D QU-VH or QUB-VH rated: 2 pole 150a, 3 pole 35-150a. 10kA using Sq-D QO or QOB rated: 1 pole 15-70a, 2 pole 15-125a, 3 pole 15-30a.	indicator's (LED).	53"H x 32"W x 12.3"D (excluding side mount receptacle) 53"H x 41.88"W x 12.3"D (including side mount receptacle)	CHECKED PROPERTY OF ASCO PO PROJECT WORK ONLY. ALL RIGHTS
<ol> <li>Panelboard: Square-D NQ, 225 amps max., 240 Vac, single phase with 100% rated neutral. 42 Circuits, accepts bolt-on or plug-on branch devices.</li> </ol>		17) Weight: Approx. 200 lbs.	FINAL JPB 06/14 ASCO®
		·	

### ASCO D300L Series Power Transfer Load Center Rated 200 Amps, 240 Vac max., Single Phase/3 Wire, Type 3R Enclosure

### 1 PPC WITH CAM-LOK DETAIL



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PANEL ID: <u>A</u> LOCATION: <u>ON H-FRAME</u> FED FROM: <u>-</u>	PANEL     BUS:		
P#         CIRCUIT DESCRIPTION           1         6160 CABINET           3            5            7            9         SPACE           11         SPACE           13         SPACE           14         SPACE           15         SPACE           17         SPACE           21         SPACE           23         SPACE           23         SPACE           24         SPACE           25         SPACE           29         SPACE	AMPS / POLES       QIPCIALS.         125A       A 20A       1P         125A       B 20A       1P         125A       B 20A       1P         125A       A SPACE       2P         125A       A SPACE       2P         125A       A SPACE       2P         125A       A SPACE       2P         125A       SPACE       2P	P#           2           4           6           8           10           12           14           16           18           20           22           24           26           28           30	
<ol> <li>UTILITY POINTS OF SERVICE AND WO INFORMATION PROVIDED BY THE UTI</li> <li>CONTRACTOR SHALL COORDINATE V MATERIALS REQUIREMENTS AND CO SPECIFICATIONS ONLY. CONTRACTO CABLES, PULL BOXES, CONCRETE EI BARRIERS, POLE RISERS, TRENCHIN REQUIREMENTS IN SCOPE OF WORK</li> <li>DANIEL SCHEDUU</li> </ol>	DRK / MATERIALS SHOWN ARE BASED UPON PRELIMINARY LITY COMPANIES AND ARE FOR BID PURPOSES ONLY. VITH UTILITY COMPANY FOR FINAL AND EXACT WORK / NSTRUCT TO UTILITY COMPANY ENGINEERING PLANS AND DR SHALL FURNISH AND INSTALL ALL CONDUIT, PULL ROPES NCASEMENT OF CONDUIT (IF REQUIRED), TRANSFORMER PA G, BACKFILL, PAY ALL UTILITY COMPANY FEES AND INCLUDE	S, D, E ALL NOT TO	
		SCALE	
POWER PANEL (SEE PANEL SCHEDULE)	EXISTING PPC CABINET #2 BTCW TO H-FRAME GROUND BAR (DO NOT BEND TO NEUTRAL)		
T-MOBILE 6160 2P125 2P10 AC HEATER 1P15 GFCI OUTLET 2P30 RECT. 1 & 3 2P30 RECT. 2 & 4 2P30 RECT. 5	FOR AC POWER (CONTRACTOR TO SUPPLY SIZE/QUANTITY CONDUCTORS PER MANUFACTURER SPECIFICATIONS) NOTE: CONTRACTOR TO VERIFY WITH MANUFACTURER SPECIFICATIONS PRIOR TO CONSTRUCTION		
2P30 RECT. 6 2P30 BATTERY BAY 2P30 BATTERY BAY	= #2 BTCW GROUND BAR (DO NOT BEND TO NEUTRAL) = E-LINE DIAGRAM	NOT TO SCALE	1 NOT USED



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### **ATTACHMENT D: EXISTING CONDITIONS**

### Adjacent Land Uses and Zoning

**North**: 200 North, across the street is a church with offices and a parking lot/TSA-UC-T **West**: Storage on the property for ~300 feet away, then three level apartments/TSA-UC-T **East**: Heavy rail corridor, with parking garage/apartments across the corridor/TSA-UC-T **South**: Vacant parking/maneuvering lot with a vacant warehouse or light manufacturing building/TSA-UC-C

### **Applicable Master Plan Policies:**

The site is located within the North Temple Boulevard Plan area boundaries. The plan was adopted in August 2010. The proposal is located in the "Viaduct Transfer Station" area of the plan. The plan has a number of standards related to building design and pedestrian friendly improvements to neighborhoods. However, antenna or communication infrastructure are not addressed in the plan.

### Salt Lake City Zoning Ordinance Provisions 21A.40.090:

The TSA-UC-T lists "Wireless telecommunications facility, exceeding the maximum building height of the zone (see section 21A.40.090 of this title)" as a Conditional Use. The maximum building height in this zone is 60'. The existing monopole is approximately 85'6" in height, measured from the ground, and the height is not being changed.<sup>1</sup> The monopole itself received Conditional Use approval for the height in 2001. The prior approval included conditions that limited the size of associated antenna array size increases. The antenna and monopole are being reviewed again through this Conditional Use petition in order to eliminate those size limitations.

The maximum antenna size allowed by City Code is 13' in width by 8' in height as limited in 21A.40.090.E.2.d:

Monopole With Antennas And Antenna Support Structure Greater Than Two Feet In Width: The maximum visible width of individual antennas and antenna mounting structures on a monopole <u>shall not exceed eight feet (8') in height or thirteen feet (13') in</u> width as viewed looking directly at the monopole at same elevation as the antennas and <u>antenna mounting structure (see subsection 21A.62.050F of this title</u>). In the case of collocation, when there is more than one antenna located on a monopole, all additional antenna structures shall not individually exceed the above referenced dimensions. No such monopole shall be located within three hundred thirty feet (330') of a residential zone other than the R-MU district.

The antenna does not comply with the above size limits; however, these limits are pre-empted by federal regulations that allow for antenna replacement to extend up to 20' from the tower. See federal regulation issues discussion on page 3. The tower is over 330' from the nearby residential zone, being approximately 345' from that zone.

<sup>&</sup>lt;sup>1</sup> The original 2001 approval was for an 80' tower; however, the tower design was modified slightly after the Commission approval to accommodate a ground level mounting platform, resulting in a tower of approximately 85'6" as shown on the current plans. That tower modification was approved at a staff level as a minor modification to the Conditional Use in 2001.

Equipment is also being replaced on the ground level. Electrical equipment is regulated by 21A.40.090.E.3.b:

b. Electrical Equipment Located On Private Property: Electrical equipment shall be located in the rear yard, interior side yard, or <u>within the buildable area on a given parcel.</u>

The electrical equipment is in the buildable area of the parcel and complies with this requirement. Existing equipment is being replaced with new equipment within the same existing fenced leased area. See attached plans.

### ATTACHMENT E: ANALYSIS OF STANDARDS

### 21A.54.080 Standards for Conditional Use

**Approval Standards**: A conditional use shall be approved unless the planning commission, or in the case of administrative conditional uses, the planning director or designee, concludes that the following standards cannot be met:

1. The use complies with applicable provisions of this title

**Analysis**: The property is located in the TSA-UC-T district. Monopoles over 60' in height and associated antennas are allowed through the Conditional Use process. Antenna arrays are limited to 13' in width and 8' in height by City code. The proposal does not comply with those size limitations. See size discussion under <u>Attachment D</u>.

**Finding**: The proposal does not comply with the City's zoning regulations regarding maximum antenna size, but those local regulations are pre-empted by federal regulations. See federal regulations discussion under the Key Issues discussion.

**2.** The use is compatible, or with conditions of approval can be made compatible, with surrounding uses;

**Analysis**: The parcel on which the proposed conditional use is located is currently utilized for commercial purposes - a storage facility. The surrounding uses include both industrial, commercial, institutional, and residential uses. The monopole is located in the area of the lot that is furthest away from the lower scale residential uses, near the heavy rail lines on the east. The institutional use across the street is not anticipated to be negatively impacted by the increase in antenna size on the monopole. The modifications are not likely to negatively impact the surrounding uses.

**Finding**: Staff finds that the proposed antennas will have little to no negative impact on the neighboring properties.

**3.** The use is consistent with applicable adopted city planning policies, documents, and master plans; and

**Analysis**: The site is located within the North Temple Boulevard Plan area boundaries. The plan was adopted in August 2010. The proposal is located in the "Viaduct Transfer Station" area of the plan. The plan has a number of standards related to building design and pedestrian friendly improvements to neighborhoods. However, antenna or communication infrastructure are not addressed in the plan.

**Finding**: The proposed use is in line with the adopted city planning policies, documents and master plans.

**4.** The anticipated detrimental effects of a proposed use can be mitigated by the imposition of reasonable conditions. (Refer to Detrimental Impacts Chart for details)

Analysis: See below.

**21a.54.080B:** Detrimental Effects Determination: In analyzing the anticipated detrimental effects of a proposed use, the planning commission, or in the case of administrative conditional uses, the planning director or designee, shall determine compliance with each of the following:

Criteria	Finding	Rationale
1. This title specifically authorizes	Complies	As noted in Approval Standard 1 and
the use where it is located	-	Attachment D, the antenna does not
		comply with the City's size limitations,
		however, those limitations are pre-empted
		by federal regulations that prohibit
		enforcement of the City size limits. The
		antenna and monopole comply with all
		other enforceable City regulations.
2. The use is consistent with	Complies	Although the antenna is not specifically
applicable policies set forth in		addressed by City master plan policies, the
adopted citywide, community,		ordinance provides policy direction by
and small area master plans and		encouraging the use of existing structures
future land use maps		for mounting antennas because it is usually
<b>F</b> -		less obtrusive than constructing a new
		facility.
3. The use is well-suited to the	Complies	The adjacent uses include uses that are
character of the site. and adjacent		not anticipated to be negatively impacted
uses as shown by an analysis of		by the increased antenna size. The
the intensity, size, and scale of the		directly adjacent uses include offices for
use compared to existing uses in		a church, storage buildings, and a heavy
the surrounding area		rail line. New development can be built
		up to at least 60' in height in the future
		on this property and adjacent properties.
		which is similar to the height of the
		antennas.
4. The mass, scale, style, design,	Complies	The antennas will be mounted to an
and architectural detailing of the	···· <b>r</b> ····	existing monopole. The structure is not
surrounding structures as they		designed similarly to adjacent buildings.
relate to the proposed have been		Cellular antennas are a normal and
considered		anticipated use in commercial areas and
		are not intended to appear like the
		surrounding buildings. Buildings are
		allowed up to a similar height as the
		proposed antennas in this area, being
		allowed up to 90' to the south of this
		property and up to 60' to the north and
		west.
5. Access points and driveways	Complies	The proposal will have no traffic impact
are designed to minimize grading	F	and is accessed from existing driveways.
of natural topography, direct		
vehicular traffic onto maior		
streets, and not impede traffic		
flows		
6. The internal circulation system	Complies	No changes to the existing circulation
is designed to mitigate adverse	*	system are proposed. The proposed
impacts on adjacent property		facility will still be accessed via 200
		North. Since little traffic will be

from motorized, non-motorized, and pedestrian traffic		generated by the facility, traffic circulation patterns for existing development in the area will not be
		affected by the proposed facility.
7. The site is designed to enable access and circulation for pedestrian and bicycles	Complies	The site is not proposed to be used on a regular basis and does not require regular access or circulation for pedestrians or bicycles.
8. Access to the site does not unreasonably impact the service level of any abutting or adjacent street	Complies	See above.
9. The location and design of off- street parking complies with applicable standards of this code	Complies	No parking spaces are required for the site.
10. Utility capacity is sufficient to support the use at normal service levels	Complies	The use has access to all necessary utilities.
11. The use is appropriately screened, buffered, or separated from adjoining dissimilar uses to mitigate potential use conflicts	Complies	The use is located on the far east corner of the property, being furthest away from the lower scale residential uses to the west. The remaining adjacent buildings are office (related to the church) or commercial related uses.
12. The use meets City sustainability plans, does not significantly impact the quality of surrounding air and water, encroach into a river or stream, or introduce any hazard or environmental damage to any adjacent property, including cigarette smoke	Complies	The use does not impact sustainability plans nor does it encroach onto a stream or water way.
13. The hours of operation and delivery of the use are compatible with surrounding uses	Complies	Once the installation is complete, the antennas will only have sporadic visits from maintenance crews.
14. Signs and lighting are compatible with, and do not negatively impact surrounding uses	Complies	No signs or lighting are proposed.
15. The proposed use does not undermine preservation of historic resources and structures	Complies	There are no historic sites or features on property.

### Section 21A.40.090.E.9 Additional Conditional Use Requirements (for antennas)

In addition to conditional use standards outlined in Section 21A.54 of the zoning ordinance; the following shall be considered by the Planning Commission:

a. Compatibility of the proposed structure with the height and mass of existing buildings and utility structures;

- b. Whether collocation of the antenna on the other existing structures in the same vicinity such as other towers, buildings, water towers, utility poles, etc. is possible without significantly impacting antenna transmission or reception;
- c. The location of the antenna in relation to existing vegetation, topography and buildings to obtain the best visual screening;
- d. Whether the spacing between monopoles and lattice towers creates detrimental impacts to adjoining properties.

**Analysis:** The proposal is to replace an existing antenna on an existing monopole. The height of the monopole and antennas are 85' at a maximum. Although the buildings adjacent to the site are lower than this, they are allowed up to 60' in height to the north and west, and up to 90' to the south, so the height is compatible with the allowed, anticipated development pattern of the area. The antenna will be collocated on an existing monopole and prevents the need for an additional monopole siting. There are no existing buildings, vegetation, or topography that would provide screening on this site – additionally such screening would directly prevent cellular reception from the proposed antennas. Based on a visual survey and FCC online database inquiry

(https://wireless2.fcc.gov/UlsApp/AsrSearch/asrRegistrationSearch.jsp), there are no other nearby monopoles within a two-block radius that would create a cluster of such facilities here.

**Finding:** Based on the above considerations, Staff finds that the antenna is generally compatible with its surroundings and is not recommending any conditions of approval.

### ATTACHMENT F: PUBLIC PROCESS AND COMMENTS

### Public Notice, Meetings and Comments

The following is a list of public meetings that have been held, and other public input opportunities, related to the proposed project.

### Early public notices for the proposal included:

- Mailed notice to property owner and residents within 300' of proposal on May 18, 2021.
- Notice sent to Recognized Community Organizations (Capitol Hill and Fairpark) on May 18, 2021. The 45-day comment period ended July 2.
  - $\circ$  No comments were received.
- Notice sign posted on May 18, 2021.

### Notice of the public hearing for the proposal included:

- Public hearing notice mailed: July 6, 2021
- Public hearing sign posted on the property: July 12, 2021
- Public notice posted on City and State websites & Planning Division list serv: July 6, 2021

### **Comments Received:**

Staff received no public comments regarding the proposal.

### **ATTACHMENT G: DEPARTMENT REVIEW COMMENTS**

### Zoning

The width of the new mount shall not exceed 13'. The antennas shall not exceed 8' in height.

Planning Staff Note: See FCC ruling discussion regarding antenna width.

### **Building Code**

Based on the information provided at this time, no building code issues are evident. *Planning Staff Note: Antenna has been approved for a permit by Building Code (BLD2021-02229).* 

### Engineering

Not routed. Antenna on private property change does not impact Engineering.

### Transportation

Not routed. Antenna change has no impacts to Transportation.

### Fire

Not routed. Already approved for permit (BLD2021-02229).

### **Public Utilities**

Not routed. Antenna change does not impact Public Utilities.