



CITY COUNCIL MEETING AGENDA

September 11 – 7:00 pm

*This is an in-person meeting at Saugatuck City Hall, 102 Butler St, Saugatuck, MI 49453.
The meeting will also be available live, virtually on Zoom.*

1. **Call to Order**
2. **Pledge of Allegiance**
3. **Roll Call**
4. **Mayor’s Comments**
5. **City Manager Comments**
6. **Agenda Changes** (*Additions/Deletions*)
7. **Guest Speakers**
8. **Public Comment on Agenda Items Only** (*Limit 3 minutes*)
9. **Consent Agenda:** (*Roll Call*)
 - A. Regular City Council Meeting Minutes – August 28, 2023. Pg3
10. **Staff Reports, Boards, Commissions & Committees:**
Starting on Pg.7
 - A. **Staff Reports:**
 1. City Manager
 2. Treasurer
 3. Planning and Zoning
 4. Department of Public Works
 5. Police
 6. Engineer

NOTICE:
Join online by visiting:
<https://us02web.zoom.us/j/2698572603>

Join by phone by dialing:
**(312) 626-6799 -or-
(646) 518-9805**

Then enter “Meeting ID”:
2698572603

Please send questions or comments regarding meeting agenda items prior to meeting to:
ryan@saugatuckcity.com

Requests for accommodations or interpretive services must be made 48 hours prior to this meeting. Please contact Saugatuck City Clerk at 269-857-2603 or Wolters@saugatuckcity.com for further information.

B. Boards, Commissions & Committees:

1. Fire District Administration Board
2. Interurban Board
3. Kalamazoo Lake Sewer & Water Authority
4. Kalamazoo Lake Harbor Authority
5. Zoning Board of Appeals
6. Historic District Commission
7. Planning Commission
 - a) Short Term Rental Task Force
8. Parks & Public Works Committee
9. Tri-Community Non-Motorized Trail Study Committee
10. Tri-Community Recycling Ad-Hoc Committee

11. Request for Payment: None

12. Approval of Accounts Payable: *(Roll Call)*

- A. Accounts Payable in the amount of \$1,221,826.41 *Pg.20*

13. Introduction of Ordinances: None

14. Unfinished Business: None

15. New Business:

- A. Resolution 230911-A- Extending Waterfront Moratorium *(Roll Call) Pg.20*
- B. Right of Way Signage Request- Hazardous Waste Day *(Voice Vote) Pg.26*
- C. 2023 Street Improvement Pay Application *(Roll Call) Pg.32*
- D. AT&T Zoning Board of Appeals Application *(Roll Call) Pg.35*
- E. Sign Request- Rotary Club for Allegan County Cup Mini-Golf Tournament *(Voice Vote) Pg.71*

16. Public Comments *(Limit 3 minutes)*

17. Correspondence

18. Council Comments

19. Adjourn *(Voice Vote)*



CITY COUNCIL MEETING MINUTES
August 28, 2023

The City Council met for Regular Council Meeting at 7:00 p.m.
City Hall
102 Butler St., Saugatuck, MI 49453.

Call to Order:

The meeting was called to order by Mayor Pro-Tem Stanton at 7:00 p.m.

Attendance:

Present: Mayor Pro-Tem Stanton and Councilmembers Baldwin, Leo, Gardner, Muncey.

Absent: Mayor Dean and Councilmember Lewis.

Motion by Muncey, second by Baldwin to excuse Council person Lewis and Mayor Dean. Via voice vote, motion carried 5-0.

Others Present: City Manager Heise, Director of Planning, Zoning & Project Management Cummins, Department of Public Works Superintendent Herbert, Treasurer Stanislawski, Clerk Wolters and City Attorney Witte.

Mayor's Comments: None.

City Manager Comments: City Manager report is included in the packet, happy to answer questions.

Agenda Changes: City Manager noted City Staff are requesting that item 15D under new business, which is microphone proposal for chambers, be removed. This will come back at a later date.

Motion by Gardner, second by Leo to remove item 15D from the agenda. Via voice vote, motion carried 5-0.

Guest Speakers: None.

Public Comment on Agenda Item Only: None.

Consent Agenda:

A. Regular City Council Meeting Minutes – August 14, 2023.

Motion by Gardner, second by Leo to approve the regular city council meeting minutes of August 14, 2023, as presented. Upon roll call vote, motion carried 5-0.

Staff Reports:

City Manager, Director of Planning & Zoning, Treasurer, DPW Superintendent, Engineer and Police submitted status reports of current activities since the last Council meeting on August 14, 2023, for their respective departments.

Boards, Commissions & Committees:Fire District Administration Board, Dan Fox:

- Close to the final accounting with insurance company on the final disposition of the fire boat that sank some time ago.
- Cost-recovery of \$8,000 due to unlawful burn, owner's failure to pay is frustrating.
- Received the second of five \$7,800 payments from Holland Community Foundation. This is in memory of Gerry Bekken's long service on the Fire Board and will be recognized with an inscription on Engine #2110.
- Authorized \$30,000 for replacement of a 5-inch large diameter fire hose.
- Long discussion of next steps on the potential move from STFD to add "Basic Life Support". Service now is being rendered by AMR and Life Ambulance without any contract.
- Community risk reduction:
 - Chief Janik has worked with the Township to develop temporary signage to discourage dangerous parking on the shoulder of Blue Star Highway in front of certain businesses.
 - Chief Janik worked with Mr. Baldhead group on traffic control and safety measures for the event on 9/9/23.
 - First accident on Blue Star/Old Allegan since the Township's remediation efforts had occurred.

Interurban Board, Councilmember Muncey:

- Encouraged people who work downtown to park at the High School and utilize the Interurban shuttle.

KLSWA, Barry Johnson: None.Kalamazoo Lake Harbor Authority, Mayor Pro-Tem Stanton:

- The next meeting is next month.

Zoning Board of Appeals: NoneHistoric District Commission, Director of Planning and Zoning Cummins:

- They will meet next week.

Planning Commission, Chair Councilmember Gardner:

- STRTF update.
- Site plan review for plans off Vine Street, approved 5-2.
- Update from planning consultant on the survey for the waterfront moratorium.
 - Continued access to the waterfront.
 - Visibility to the water.
 - Ability to enjoy the waterfront.
- Approval for restaurant and brewery at the old Toulouse building.

Short Term Rental Task Force, Mayor Dean via Mayor Pro-Tem Stanton:

- Next meeting is this Thursday at 3:00pm.

Parks and Public Works Committee, Councilmember Baldwin:

- On pace with the Tri-Community five-year plan.
 - Open house September 21.
 - Will be sending out a survey.
- Created signage as you exit the Chain Ferry.
- Crack sealing on Park St.

Tri-Community Non-Motorized Trail Study Committee, Councilmember Leo: None.

Tri-Community Recycling Ad-Hoc Committee, Councilmember Lewis: None.

Request for Payment: None.

Approval of Accounts Payable:

- A. Accounts Payable in the amount of \$432,722.62.

Motion by Baldwin, second by Leo to approve the accounts payable in the amount of \$432,722.62. Via roll call vote, motion carried 5-0.

Introduction of Ordinances: None.

Unfinished Business: None.

New Business:

Hemlock Wolly Adelgid- HWA:

Motion by Leo, second by Baldwin to Approve contract with GEI Consultants for chemical treatment of Hemlock Trees on public property in the amount of \$44,400. Via roll call, motion carried 5-0.

Household Hazardous Waste:

Motion by Muncey, second by Baldwin to approve a City of Saugatuck contribution towards Household Hazardous Waste & Styrofoam collection event in the amount not to exceed \$3,000.00. Via roll call vote, motion carried 5-0.

Special Event- Chilli Cookoff:

Motion by Baldwin, Second by Leo to approve the chili cookoff to take place on October 8th, 2023, organized by the Cow Hill Yacht Club. Via voice vote, motion carried 5-0.

Donation Box at Mt. Baldhead:

Motion by Muncy, second by Baldwin to allow members of the Saugatuck Douglas History Center to maintain a donation box at the base of Mt Baldhead stairs, with all proceeds going to the City for operations and maintenance of Mt Baldhead public facilities. Via voice vote, motion carried 5-0.

Public Comment:

Maryjo Lemanski, non-resident:

- Presented to the council on July 19th regarding replacement of a damaged piece of artwork.
- August 28 was target decision date. The artist would like an immediate decision.

Correspondence:

Council Comments:

- Councilmember Baldwin: Mt. Baldhead Challenge will be a week from Saturday. Sign up!
- Councilmember Muncey: Labor Day Bridge Walk on Labor Day as tradition starts at 9:15 a.m.
- Councilmember Leo: Jersey Boys at the SCA was terrific, shout out to Kurt, Sam and the community which has supported the SCA in that production.
- Councilmember Garnder: Volunteering Mt. Baldhead Challenge working radios.
- Mayor Pro-Tem Stanton: She joined the council as a representative of the business community. Kids in college and high school went back early. Be patient with the businesses in town as they are short-staffed.

Adjournment:

Motion by Muncey, second by Baldwin to adjourn the meeting. Upon voice vote, motion carried 5-0. Mayor Pro-Tem Stanton adjourned at 8:05 p.m.

Respectfully Submitted

Jamie Wolters, City Clerk



City Managers Report – September 11th, 2023

Cellular Service Discussions Continue with AT&T

Next Steps:

- 1) Review proposed lease with City Council
- 2) Present to Council needed upgrades for current code compliance, and in preparation for AT&T wireless infrastructure.

Staff and the AT&T team are reviewing the appropriate zoning requirements and process for infrastructure to support antennas within the radome (ball) structure. Legal has provided their red-line version of a lease agreement provided by AT&T, which has been provided to both Council and AT&T. City staff is actively working with a vendor to assist with ensuring that current electric connections servicing the radome are safe and to code. The Department of Public Works will begin removing all ancillary equipment, allowing AT&T to finalize their design from the antenna array within the dome. AT&T remains focused on completing this project by summer of '24.

Discussions with AT&T on Potential Downtown WiFi

On pause. Discussed project with Allegan County Broadband Director and will coordinate a “needs survey,” to be disseminated to business owners and residents.

There appears to be enthusiasm and motivation to tackle this project from both the City and AT&T. Initial proposal was presented to Council for a site analysis. Council requested that we work with Jill Dunham, Broadband Project Manager for Allegan County to review proposal and assist with making recommendations.

Blue Star Highway Multi-Modal Path

Kickoff meeting conducted with engineer (C2AE) and stakeholder team. City of Saugatuck stakeholder members and Parks and Public Works Committee will begin to review path designs that are unique to the City.

For additional details, please see pp.55-66, from the August 22nd Parks and Public Works Committee meeting (also on website).

https://www.saugatuckcity.com/uploads/1/3/3/9/133977444/ppw_packet_08-22-23.pdf

MDOT Exit 36 and 41 Bridge Work

Information on traffic detours continue to be provided through social media and constant contact email list, when appropriate.

Parks and Recreation Master Plan- Tri-Community Effort (Including Saugatuck Public Schools Community Recreation).

A Tri-Community effort- Development of plan is underway. Community survey to be launched soon!

The purpose of the plan is to: Evaluation of recreation facilities • Identify recreational needs - public perception • Provide a guide for improvements – goals • Set timetable for improvements – actions • Eligible for recreation grants through DNR.

Sections of the plan include: • Community Description • Administrative Structure • Recreation Inventory • Recreation Needs / Deficiencies • Public Input Process • Goals and Objectives • Action Plan.

Public Input Methods: • On-line survey • Public Input Open House • Input Collection at Community Event • 30-day Public Review • Public Hearing.

Timeline of the project- Five-month process ending with a plan adoption by Council in late January.

Parks and Public Works Update

Attention remains on the following projects: playground/village square, Blue Star Trail multi-modal path, Airport Property, Mt. Baldhead and Park Street. The PPW Committee has organized study groups to perform “fact finding” to present to the PPW Committee. This is designed to be a bottom-up process with many opportunities for citizen input. More details on projects from the August 22nd PPW meeting found here (also on website):

https://www.saugatuckcity.com/uploads/1/3/3/9/133977444/ppw_packet_08-22-23.pdf

Ongoing- Kalamazoo Lake Sewer and Water (KLSWA) Agreement- Tri-Community

This item will be on your next workshop agenda. Meeting conducted with EGLE and regional municipal managers on 9.7.23.

City/Township Managers continue to discuss the Asset Management Plan (AMP), along with our respective attorneys and engineers. Council engaged Baker Tilly (consultant) to assist with the AMP and the first meeting was conducted on 8.9.23. The Tri-Communities have directly engaged with EGLE to ensure that our respective municipalities stay in compliance. Discussions with the City Council will be needed to ensure that assets owned by the city are funded for replacement after their useful life. If everything goes as planned, Baker Tilly will have authority to submit thereafter. If Council has some additional questions and comments to work through in the proposed AMP, we have the September 20th and 25th meetings of Council also available.

Ongoing- Oval Beach Staffing and Operations

Congratulations to our City staff for a safe and successful season. A special thank you to Sara Williams (Dept. Administrator), and Peter Stanislawski (Treasurer), and Scott Herbert and the entire DPW team for their focused efforts to provide quality service at Oval Beach.

City Hall

Paint and structural repairs complete, final details with “Village Hall,” sign, shutters and flower boxes coming soon. Will we then turn to landscape and irrigation improvements.

Old news- Dune Ridge Waterfront Update

Litigation continues...we typically do not discuss ongoing litigation.

Meetings

- Asset Management Plan meeting with EGLE
- Convention and Visitors Bureau meeting
- MDOT bridge repair and management of traffic meeting
- AT&T meeting with contractors to review existing electric at Mt Baldhead
- Five-year parks and Rec Plan Steering Committee meeting

Council-Manager form of Government Tid-bit

In the council-manager form of government, Council members are the leaders and policy makers elected to represent various segments of the community and to concentrate on policy issues that are responsive to citizens' needs and wishes. The manager is appointed by the City Council to carry out policy and ensure that the entire community is being served. If the manager is not responsive to the City Council's wishes, the Council has authority to terminate the manager at any time. In that sense, the manager's responsiveness is tested daily.



Treasurer Report

Below is a summary of notable activities carried out by the Treasurer's Office since the last council meeting on 8/28/2023:

- Paid routine bills
- Completed and disseminated bi-weekly payroll
- Proceeding with the 2023 audit
- Oval Beach working through the process
- FY 2023 end year closing.
- Process Summer Tax Bills
- Wrap up Season on Oval & Culver Parking
- Summer Property Taxes are due Thursday September 14th .



Planning, Zoning and Project Report

September 11, 2023

Planning and Zoning

- Prepared for and attended Short Term Rental Task Force meeting.
- Prepared for and attended Historic District Commission meeting.
- Met virtually with STR Task Force Chair and McKenna Associates to discuss reports for next meeting.
- Reviewed McKenna's draft STR Task Force reports.
- Set up and participated in a ZBA alternate member interview with the Mayor and ZBA Chair.
- Reviewed draft hardscaping in right of way report from the City Attorney and provided feedback.
- Viewed conditional and special use permits training webinar from Fahey Shultz.
- Attended State Rep. Andrews' STR Listening Tour event.
- Continued follow-up on complaints of several code violations throughout the City.
- Met and talked with property owners and applicants to answer questions and provide resources.
- Completed planning and zoning casework as outlined in the chart below.

Planning and Zoning Casework

320 Mason	Enforcement	Discovered STR property still being advertised contrary to options presented to owner and agent in several e-mails and in person meeting. Also found evidence property isn't being rented under a single contract despite past warnings. Civil infraction notice issued. Owner denied responsibility. Evaluating sending civil infraction citation to district court.
615 Park St	Structural Improvements	Previous zoning permit application received for exterior wall, deck and foundation work. Some units will also receive interior re-builds due to water damage. Reviewed with legal and consultant. Advised applicants of issues related to substantial improvements in a floodplain, zoning, and current moratorium. Discussed further with applicant. Discussed market value questions with FEMA. Met in person with HOA president and applicant to discuss findings and options. Answered questions from additional independent appraisers. Received independent appraisal. Assessor and I reviewed. Sent questions on the appraisal back to association president.
560 Mill and 860 Simonson	Enforcement	Enforcement of hardscaping in ROW still pending report back to City Council and further policy direction. Planned for September 20 workshop meeting.
405 Park	Enforcement	<p>Previously issued a stop work order and civil infraction notices for lack of zoning permits and destruction/excavation of a street without permits. Discovered prior deck work also completed without permits. Received response from owner's attorney. Worked with legal on responses. Stop work order for deck and structural work remains in effect. Still no EGLE updates at this time.</p> <p>Previously met with legal, owner and owner's attorney. Owner provided history. Explained violation concerns and answered questions. Owner agreed to pay civil infraction fines and is planning to seek waiver from moratorium. Fines have now been paid.</p>
241 Culver	Enforcement	Evidence found that home is being rented without a STR certificate. STR application was reviewed with legal and denied back in March due to not meeting zoning ordinance requirements. Discussed enforcement options with legal. Sent violation letter via e-mail and mail with opportunity to voluntarily cease use as STR within 7 days. Response received from owner's attorney reviewed by legal. City Attorney reviewed and sent response. Worked with legal on second response to owner's attorney. Provided owner with options. Owner's attorney provided update that they are gathering further historical documents.
321 Water	Variance/ New Fence	ZBA app for a dimensional variance for a 6'10" fence where only a 6' fence is allowed. ZBA granted variance. Owner applied for zoning and HDC permits. HDC Chair requested full Commission review. Scheduled for September meeting.
333 Lucy	HDC and Zoning	HDC app to remove sliding doors, replace with double hung windows and French door. Replacement of entrance steps. HDC approved with conditions. Zoning permit app received. Need fee paid and plans for zoning to review.

Planning and Zoning Casework Continued

665 Spear St	Drainage Complaint / New Fence	Concern of drainage issues from project. Over winter similar concerns received. Engineer reviewed and felt issues were soil and erosion related. Notified Allegan County Health Department at that time. Received further information from neighbor. Viewed on site with Engineer and DPW Superintendent. Project still ongoing. Some storm water items on site but not connected. Sandbags on portion of property. Engineer advised stormwater plans should be requested. He advised to notify Allegan County as well to check on soil and erosion control permit. Advised owner of complaint and requested stormwater management plans. Advised Allegan County. Meeting held with owner. He advised he was meeting with contractor soon and will provide formal stormwater plans to review. Sent e-mail asking if formal plans have been developed. Owner advised plans are being finalized and additional temporary measures installed. Received report that permanent stormwater items are being installed and owner may soon be installing a fence. Contacted owner for stormwater plans and advised of fence permit requirement. Owner submitted fence permit application. Fence permit issued.
234 Francis	Short Term Rental	STR app. Renewing. Sent to Fire Department for inspection. Failed inspection. Reinspection invoice sent and paid.
642 and 648 Allegan	Short Term Rental	STR app for both dwellings. New owner of existing STRs. This property is a legal nonconforming use. Advised applicant another app and fee will be needed to issue a certificate to each unit. Second app received. Sent to Fire Department for inspection. Still pending.
717 Water #5	Short Term Rental	STR app. New owner of existing STR. Needed property transfer affidavit and fee paid. Both received. Sent to Fire Department for inspection. Failed two reinspections. Sent invoice.
145 Grant	Enforcement	Complaint of cars and boat parked along Elizabeth St. Complainant also believes boats being rented out of back yard. Did not have evidence to support, but sees three boats and assumes rental activity. Investigated claims. No evidence to support boat rentals. Did observe boat stored along Elizabeth St. Home is on a corner lot. Sent warning letter to remove. Talked with owner and answered questions. Owner has plans for addition and garage and plans to seek variances for project. Meeting set for preliminary review.
820 Holland	Inspections/Enforcement	MTS requested final inspections. Inspected site and found several items differed from approved historic district and zoning plans. Notified HDC Chair. Sent owners letter to apply for HDC and zoning permits for deviations from approved plans and work not permitted. Owner applied for approval of deviations. Scheduled for September HDC meeting. Requested zoning plans to be updated with further detail. Updated plans received.

Planning and Zoning Casework Continued

120 Mary	Short Term Rental	STR app. New STR in a single family home. Denied due to STRs only being permitted on second or third floors in water street east zoning district. Sent email and letter to owner and agent. Answered owner questions. Provided resources related to rezoning and use variances. Discovered home is being advertised and rented as an STR without the certificate. Issued a civil infraction notice. Fine due by 9/11/23.
118 Hoffman	Enforcement	Complaint of structures built without screening or permits. Complainant advised outdoor refrigeration building was built in late winter/early spring. Checked area and discovered two structures built in northwest section of property. Refrigeration unit not permitted by zoning or historic district. Checked with MTS and no building permits. Prior approved plans and survey did not show any structures in the northwest area of the property. Assessing photos confirm this. Previously a mix of retail. Construction began on new restaurant in October 2021. Water Street East zoning changed in November 2020 to make restaurants a SLU instead of permitted use. No special land use or formal site plan approvals. Sent owner letter to apply for permits for recent structures and apply for SLU and formal site plan review for restaurant use. Met with owner and answered questions and provided resources.
125 Elizabeth	Short Term Rental / Enforcement	STR app. New STR. Sent to Fire Department for inspection. Discovered home is already being rented without a certificate. Also discovered hot tub and patio installed without zoning permits. Sent letter to owner to cease STR use until certificate is obtained and apply for zoning permits. Talked to owner. Answered questions. Provided resources. Discovered dwelling still being rented without STR certificate. Civil infraction notice issued. Asked about status of applying for zoning approvals for hot tub and patio.
649 Pleasant	Enforcement	Complaint of trash tote left by road after pickup day on a regular basis. Two prior complaints and warnings this year. Issued civil infraction notice to owner. Owner said they are now local and will take care of it. Fine paid.
831 Holland	Enforcement	Complaint of paved hardscaping installed in the right of way. Complainant advised installed in last year or two. No permits in system. Awaiting policy direction from Council on other similar issues and will handle as directed.
344 Lucy	HDC	HDC app to repair siding, repair/replace pergola, replace doors, deck, and light fixtures. Scheduled for 9/7 HDC meeting.
296 Sugar Hill	New Home	Zoning app for new home. Need height and floor area ratio info. Provided resources. Need fee paid. Also need water/sewer connection app and fees.
312 St. Joseph	Complaint	Questions about no parking signs and whether they are lawfully in place. Will follow up.
594 Campbell	Final Inspections	Final inspections requested. To be completed.
984 Ridgeview	New Home	Zoning app for new home. Further information was needed and requested from applicant. Also advised of water-sewer connection application. Received updated plan and water-sewer connection application. Under review.

Planning and Zoning Casework Continued

570 Shorewood	New Home	Zoning app to demolish existing home and build new single family home. Reviewed zoning regulations and EGLE documents to date. EGLE has not yet issued permits. Association did not submit application as required. No review committee signatures submitted. Discussed with legal. Spoke with contractor in person. He withdrew application. Discussed regulations, various questions and concerns.
129 Griffith	Inquiry	Questions from Stogie's about using some of previous Grow Café outdoor space along Griffith. Advised the intent was for outdoor dining and was subject to revocable license agreement. Advised I would research further.
772 Manchester	Final Inspections	Request for final inspections. To be completed.
640 Water St	Enforcement	Complaint of demolition work without historic district permits. No historic district permit. No MTS permits. Checked on alteration or demo work. Found some eave demolition occurring on the west elevation by a contractor. They stated they were hired by the owners. Advised them to stop work. Sent enforcement letter to stop work and apply for permits for unpermitted work. Issued civil infraction notice. Fine due 9/19/23. Answered contractor questions and provided applications and resources.
Parcel # 57-550-004-02	Inquiry	Questions about access to parcel. GIS shows public right of way. Appears unimproved. Potential buyer is willing to pave a drive. Sent to engineer for initial feedback.
559 Hoffman	Inquiry	Met owner and discussed temporary structure plans. Reviewing regulations to answer questions.
648 Pleasant	Enforcement	While investigating a similar complaint on neighboring property, observed trash tote left out after pickup day. STR property. No prior logged violations. Sent owner warning letter. Owner out of town and forgot to ask agent to remove.
430 Vine	Enforcement	Complaint of rocks and posts placed in right of way adjacent to address. Checked area and confirmed. Sent warning letter to remove. Owner responded with disagreement and provided survey. Road as built provided by City Engineer. Area around curve is outside property line. Provided info to owner.
1041 Holland	Short Term Rental	STR app. New owner of existing STR. Sent to Fire Department for inspection. Passed. STR certificate issued.
346 Butler	Literature Box	HDC app to install literature distribution box. HDC Chair advised admin approval. HDC permit issued.
313 St. Joseph	Enforcement	Signs observed in right of way between sidewalk and street. E-mailed owner regulations and asked to remove. Owner advised they are removed.
510 S Maple	Enforcement	Complaint of trash tote left by road three days after pickup. Checked area and observed violation. Recycling receptacle also not screened. Complaint also received earlier in this year. Sent prior warning/informational letter. Civil infraction notice issued. Fine not paid timely. Stopped by home. Fine paid.
807 Lake	Inquiry	Questions about historic district and replacing deck railings on units. Provided historic district application.

Planning and Zoning Casework Continued

256 Spear	Complaint	Complaint of homeowner charging for parking and parking several cars on the property. Reviewed with legal. Followed up with complainant to ask further questions. Letter sent to owner. Met with owner in person and answered questions.
428 Grand	Inquiry	Another contractor with questions about a sewer line replacement. Provided feedback and resources shared with others. Met with owner and answered questions.
64 Lakeview	Inquiry	Questions about whether property is in historic district and any permits for a roof replacement. No change in roofline. Not in historic district. No zoning permit required for re-shingle.
1010 Holland	Inquiry	Questions about possibly expanding upper deck along waterfront. Provided resources.
184 Park	Setback Variance / New Home	ZBA application for front setback variance. ZBA granted variance. Zoning app and water/sewer connection app received for new home received. Engineer and planning consultant reviewed. Provided feedback from both. Engineer answered applicant questions. Received and reviewed updated plans. Zoning permit and water-sewer connection permits issued. Street cut permit application received. Street cut permit issued.
146 Butler	Short Term Rental	STR app. Previous STR. Sent to Fire Department for inspection. Failed. Sent reinspection invoice. Paid. Passed reinspection. STR certificate issued.
568 Mason	Short Term Rental	STR app. Existing STR with new owner. Sent to Fire Department for inspection. Passed. STR certificate issued.
346 Mary	Short Term Rental	STR app. Previous STR. Sent to Fire Department for inspection. Passed. STR certificate issued.

Department of Public Works Report

Below is a summary of notable activities carried out by the Department of Public Works since the last council meeting on 08/28/2023:

Oval Beach:

- Now that Labor Day weekend has passed, Oval Beach is now free to enter for the public. Remaining seasonal staff has begun working through closing procedures which primarily involve deep cleaning of the concession stand facility and related equipment. The restrooms will remain open and maintained by DPW as long as temperatures allow.
- DPW has recently filled the position of Equipment Operator/Maintenance Worker/Oval Beach Manager. Training will take place throughout the fall, winter, and spring.

Mt. Baldhead Park:

The roof on the Mt. Baldhead picnic pavilion has been replaced by TNT Roofing.

Assisted with the following Special Events:

- Music in the Park
- Mt. Baldhead Challenge
- Art in the Park

Meetings:

- **8/28/2023** – DPW Weekly Goals Meeting
- **9/01/2023** – DPW Weekly Goals Follow Up Meeting
- **9/05/2023** – DPW Weekly Goals Meeting
- **9/06/2023** – Resident Meeting with F&V – 850/856 Park Street Erosion
- **9/08/2023** – DPW Weekly Goals Follow Up Meeting

**City of Saugatuck
Status Report of Engineering Activities
September 6, 2023**

General Consultation

- Olde Mill Apartments Water Service: This work could be combined with other work on Maple Street or the Drinking Water State Revolving Fund project.
- 2023 System-wide Pavement Markings: Work is ongoing and will be complete soon.
- 2023 System-wide Crack Sealing: Work is anticipated to begin soon and be completed in October.
- Category B Application: The application has been submitted and results should be available soon.
- Grants Workshop: We are discussing the possibility of having grant experts from F&V put together a workshop for council, staff and other interested parties to review the various programs used in the past, recent applications and brainstorming for new opportunities.
- City-wide parking, safety, signage, etc. review: Prepared a letter reviewing on-street parking vs. sight distance concerns. We plan to conduct a kickoff meeting with City staff and F&V traffic team this fall to develop a scope for the broader study, if required.
- N. Park Street Slope Erosion: We are working with DPW, City Attorney and property owners to develop a solution and recommendation for council.

Blue Star Highway Bridge Navigation Lighting

- Bids were received on July 27 with construction scheduled to be complete prior to Memorial Day 2024. Prepared a Recommendation of Award to the low bidder. Once all three communities have awarded the project, a contract can be prepared.

EGLE Drinking Water State Revolving Fund

- EGLE staff has released the initial scoring.
- The final project priority list is anticipated to come out soon. If the project is funded, design would begin in late 2023 or early 2024 for construction to begin in late 2024 or early 2025.

2023 Street Improvements (West, East, Takken, Taylor and N. Maple)

- Asphalt crushing work has been completed and storm sewer work is underway.
- Work is anticipated to be completed by the end of October.

Water System Asset Management Plan

- The draft AMP has been submitted for staff and financial consultant review.

Mt. Baldhead Conceptual Planning

- We are working on scheduling a public workshop this fall to begin soliciting community input.

Mt. Baldhead AT&T Project Assistance

- Received updated plans from the AT&T team and working with the Allegan Conservation District to begin the Critical Dunes permitting process.

Vendor Name	Description	Amount
1. ACTION INDUSTRIAL SUPPLY CO	UNIFORMS & SAFETY EQUIPMENT	169.59
2. ALLEGAN COUNTY SHERIFF	OVAL BEACH RESERVES	972.00
3. ALLEGAN COUNTY TREASURER	PROPERTY TAXES	445,237.61
4. ASSESSING SOLUTIONS INC	ASSESSING SERVICES	2,791.50
5. AT&T MOBILITY	CELL PHONES	171.64
6. BURNETT & KASTRAN PC	LEGAL FEES	204.00
7. CAPITAL ONE	FENCE POST & SUPPLIES	2,237.27
8. CONSUMERS ENERGY	ELECTRIC	3,814.40
9. FAHEY SCHULTZ BURZYCH RHODES	LEGAL FEES	7,902.00
	LEGAL FEES ZONING	7,515.00
	LEGAL FEES ORDINANCES	850.00
	LEGAL FEES CLERK	96.00
	LEGAL FEES COUNCIL	5,404.50
	LEGAL FEES FOIA	242.00
	LEGAL FEES MANAGER	2,288.00
	LEGAL FEES LAWSUIT	16,461.82
	LEGAL FEES ELECTRICAL	52.50
	LEGAL FEES WATER & SEWER	564.00
	LEGAL FEES EGLE	315.00
	LEGAL FEES COASTAL	581.00
	LEGAL FEES STR TASK FORCE	1,156.00
	TOTAL	43,427.82
10. FIRST BANK CARD	TRAINING, OVAL & SUPPLIES	5,598.10
11. FRONTIER	OVAL BEACH	164.81
	OVAL	131.79
	DPW GARAGE	213.51
	OVAL	170.29
	TOTAL	680.40
12. GIL- ROY'S HARDWARE	PARKS	153.88
13. GIVE' EM A BRAKE SAFETY	SIGNS	423.00
14. GORDON FOOD SERVICE	CONCESSION	354.02
15. GROUNDS MANAGEMENT SOLUTIONS	PARKS MAINTENANCE	714.00
16. HORIZON COMMUNITY PLANNER	PLANNING & HISTORIC DISTRICT	3,218.75
17. HUNTINGTON NATIONAL BANK	SERVICE FEES	204.57
18. IHLE AUTO PARTS	SUPPLIES	1,409.56
19. KENDALL ELECTRIC INC	SUPPLIES	37.18
20. KROHN EXCAVATING LLC	STREET IMPROVEMENTS	41,217.51
21. MERS	RETIREMENT	4,500.00
22. MICHIGAN CAT		

Vendor Name	Description	Amount
	WHEEL LOADER REPAIR	782.73
23. MICHIGAN GAS UTILITIES		
	CITY HALL	40.79
	BULTER STREET TOILETS	44.76
	DPW GARAGE	39.95
	TOTAL	125.50
24. OTTAWA AREA INTERMEDIATE	SCHOOL DIS	
	PROPERTY TAXES	245,501.12
25. OVERISEL LUMBER COMPANY		
	SUPPLIES	1,001.74
26. PRIORITY HEALTH		
	HEALTH INSURANCE	8,302.77
27. PRO-TEMP INC		
	CONCESSION	600.86
28. PURITY CYLINDER GASES INC		
	CONCESSION	19.57
29. RAF ELECTRIC		
	OVAL	307.50
30. REPUBLIC SERVICES		
	TRASH	866.43
	TRASH	973.61
	TRASH	205.95
	TRASH	1,408.08
	TRASH	1,564.50
	TRASH	269.02
	TOTAL	5,287.59
31. RICOH USA INC		
	COPIER LEASE	615.25
32. SAUGATUCK FIRE		
	RENTAL INSPECTIONS	525.00
33. SAUGATUCK PUBLIC SCHOOLS		
	PROPERTY TAXES	321,544.40
34. SHELL		
	GASOLINE & DIESEL	51.84
35. SHORELINE TECHNOLOGY SOLUTIONS		
	COMPUTER SERVICES	1,307.20
36. STINGERS PEST CONTROL		
	PEST CONTROL	70.00
37. STREAMLINE DESIGN.COM LLC		
	CITY HALL SIGNS	650.00
38. TERRY'S PRECAST PRODUCTS INC		
	SCULPTURE BASE	170.00
39. TRUCK & TRAILER SPECIALTIES		
	NEW TRUCK BUILD OUT	77,166.00
40. VALLEY CITY LINEN INC		
	SHOP TOWELS	260.54
TOTAL - ALL VENDORS		1,221,826.41
FUND TOTALS:		
Fund 101 - GENERAL FUND		87,163.95
Fund 203 - LOCAL STREETS		41,442.51
Fund 661 - MOTOR POOL FUND		80,936.82
Fund 701 - CURRENT TAX FUND		1,012,283.13

09/07/2023 CHECK REGISTER FOR CITY OF SAUGATUCK				
CHECK DATE FROM 08/01/2023 - 08/31/2023				
Check Date	Check	Vendor Name	Description	Amount
Bank GEN GENERAL POOLED CASH				
08/04/2023	DD6243(A)	BOUWMAN, CHAD	PAYROLL	1,431.00
08/04/2023	DD6244(A)	BUTER, HUNTER	PAYROLL	729.00
08/04/2023	DD6245(A)	CUMMINS, RYAN	PAYROLL	2,246.08
08/04/2023	DD6246(A)	DEJAEGHER, JOHN	PAYROLL	1,096.33
08/04/2023	DD6247(A)	DOMBROSKI, NANCY	PAYROLL	1,181.27
08/04/2023	DD6248(A)	FIFELSKI, SARAH	PAYROLL	495.50
08/04/2023	DD6249(A)	FLANAGAN, HANNAH	PAYROLL	1,010.86
08/04/2023	DD6250(A)	FOXWORTHY, ETHAN	PAYROLL	383.24
08/04/2023	DD6251(A)	GARCIA, DANIELA	PAYROLL	1,098.20
08/04/2023	DD6252(A)	GOODRICH, RICHARD	PAYROLL	671.93
08/04/2023	DD6253(A)	GRIGG-MARTINEZ, DAYTON	PAYROLL	1,003.85
08/04/2023	DD6254(A)	HARDY, CODY	PAYROLL	1,518.88
08/04/2023	DD6255(A)	HEISE, RYAN	PAYROLL	3,464.36
08/04/2023	DD6256(A)	HERBERT, SCOTT	PAYROLL	2,133.02
08/04/2023	DD6257(A)	HINKLE, MARY	PAYROLL	1,098.09
08/04/2023	DD6258(A)	KERRIDGE, ADAM	PAYROLL	1,662.22
08/04/2023	DD6259(A)	LARSEN, SAGE	PAYROLL	475.01
08/04/2023	DD6260(A)	LLOYD, ERICA	PAYROLL	586.30
08/04/2023	DD6261(A)	MACK, ELLIS	PAYROLL	1,308.47
08/04/2023	DD6262(A)	MARTIN, DANNY	PAYROLL	991.29
08/04/2023	DD6263(A)	NYHOF, JACKSON	PAYROLL	1,179.26
08/04/2023	DD6264(A)	PETERS, ADDISON	PAYROLL	1,011.45
08/04/2023	DD6265(A)	PETERS, AVERY	PAYROLL	948.21
08/04/2023	DD6266(A)	PETERSON, BENJAMIN	PAYROLL	1,051.21
08/04/2023	DD6267(A)	PHELPS, BROOKLYN	PAYROLL	865.72
08/04/2023	DD6268(A)	PHELPS, PAIGE	PAYROLL	820.05
08/04/2023	DD6269(A)	SAMUELS, ROBERT	PAYROLL	569.27
08/04/2023	DD6270(A)	STANISLAWSKI, PETER	PAYROLL	1,470.93
08/04/2023	DD6271(A)	STEZOWSKI, LOGAN	PAYROLL	726.89
08/04/2023	DD6272(A)	STEZOWSKI, TYLER	PAYROLL	396.44
08/04/2023	DD6273(A)	STORK, JACK	PAYROLL	1,069.06
08/04/2023	DD6274(A)	VAN HOWE, AINSLEY	PAYROLL	828.63
08/04/2023	DD6275(A)	WATERS, BENJAMIN	PAYROLL	595.00
08/04/2023	DD6276(A)	WILLIAMS, ANTHONY	PAYROLL	211.44
08/04/2023	DD6277(A)	WILLIAMS, SARA	PAYROLL	1,868.41
08/04/2023	DD6278(A)	WOLTERS, JAMIE	PAYROLL	1,900.71
08/04/2023	EFT1710(E)	ALERUS	PAYROLL	3,412.12
08/04/2023	EFT1711(E)	MERS HYBRID	PAYROLL	2,109.17
08/04/2023	EFT1712(E)	FEDERAL TAX DEPOSIT	PAYROLL	12,024.22
08/04/2023	EFT1713(E)	EXPERT PAY	PAYROLL	139.54
08/14/2023	17280	AMERICAN LEGAL PUBLISHING CORP.	ORDINANCES	495.00
08/14/2023	17281	COMMERCIAL RECORD	PUBLISHING	271.00
08/14/2023	17282	DK CONSTRUCTION INC	4TH JULY BARGES	8,000.00
08/14/2023	17283	ERIC JACKSON	4TH JULY	1,500.00

09/07/2023 CHECK REGISTER FOR CITY OF SAUGATUCK				
CHECK DATE FROM 08/01/2023 - 08/31/2023				
Check Date	Check	Vendor Name	Description	Amount
08/14/2023	17285	FRANKLIN BRONZE PLAQUES	PLAQUE ROSE GARDEN	316.75
08/14/2023	17286	FREESTONE PICKLE CO INC	CONCESSION	39.00
08/14/2023	17287	GIL- ROY'S HARDWARE	SUPPLIES	326.32
08/14/2023	17288	HAMILTON FIRE DEPARTMENT	4TH JULY	700.00
08/14/2023	17289	IHLE AUTO PARTS	SUPPLIES	30.43
08/14/2023	17290	MCKELLIPS PLUMBING INC	PLUMBING SERVICES	663.00
08/14/2023	17291	MINER SUPPLY CO	SUPPLIES	294.40
08/14/2023	17292	OVERISEL LUMBER COMPANY	SUPPLIES	1,405.04
08/14/2023	17293	PIVOT POINT PARTNERS LLC	ASSESSING	403.20
08/14/2023	17294	SAUGATUCK DOUGLAS CVB	4TH JULY	279.84
08/14/2023	17295	SAUGATUCK PUBLIC SCHOOLS	PROPERTY TAXES	112,452.40
08/14/2023	17296	SAUGATUCK TOWNSHIP	FIVE YEAR PARK PLAN	375.00
08/14/2023	17297	WESTENBROEK MOWER INC	PUSH MOWER TORO	899.00
08/14/2023	17298	WYOMING ASPHALT PAVING CO	ASPHALT PATCH	202.34
08/14/2023	4789(E)	AT&T MOBILITY	CELL PHONES	171.64
08/14/2023	4790(E)	CAPITAL ONE	SUPPLIES	531.01
08/14/2023	4791(E)	CONSUMERS ENERGY	ELECTRIC	3,850.59
08/14/2023	4792(E)	FIRST BANK CARD	SUPPLIES, OVAL & TRAINING	4,079.80
08/14/2023	4793(E)	FRONTIER	OVAL BEACH	104.38
08/14/2023	4794(E)	FRONTIER	DPW GARAGE	213.12
08/14/2023	4795(E)	GORDON FOOD SERVICE	CONCESSION	8,654.94
08/14/2023	4796(E)	MERCHANTS BANCARD NETWORK	CONCESSION	4,581.83
08/14/2023	4797(E)	MERS	RETIREMENT	29,500.00
08/14/2023	4798(E)	MERS	RETIREMENT	4,556.77
08/14/2023	4799(E)	MICHIGAN GAS UTILITIES	CITY HALL	36.98
08/14/2023	4800(E)	MICHIGAN GAS UTILITIES	BUTLER ST TOILETS	40.87
08/14/2023	4801(E)	PRIORITY HEALTH	HEALTH INSURANCE	8,302.77
08/14/2023	4802(E)	RICOH USA INC	COPIER LEASE	127.97
08/14/2023	4803(E)	SHELL	GASOLINE & DIESEL	70.42
08/14/2023	4804(E)	STATE OF MICHIGAN	SALES TAX	2,265.44
08/14/2023	4805(E)	VALLEY CITY LINEN INC	SHOP TOWELS	670.99
08/14/2023	4806(A)	ACTION INDUSTRIAL SUPPLY CO	UNIFORMS & SAFETY EQUIPMENT	119.97
08/14/2023	4807(A)	ALLEGAN COUNTY SHERIFF	DEBT CREW	1,538.00
08/14/2023	4808(A)	ALLEGAN COUNTY TREASURER	PROPERTY TAXES	154,342.03
08/14/2023	4809(A)	ASSESSING SOLUTIONS INC	ASSESSING SERVICES	2,791.50
08/14/2023	4810(A)	BRUCE'S BLACKTOP LLC	PARK STREET	2,580.00
08/14/2023	4811(A)	DUNESVIEW KWIK SHOP INC	GASOLINE & DIESEL	1,948.99
08/14/2023	4812(A)	FAHEY SCHULTZ BURZYCH RHODES	LEGAL FEES EGLE	35,923.69
08/14/2023	4813(A)	FLEIS & VANDENBRINK ENGINEERING INC	LANDFILL PHASE 1	12,616.47
08/14/2023	4814(A)	GROUND MANAGEMENT SOLUTIONS	PARKS MAINTENANCE	714.00
08/14/2023	4815(A)	HORIZON COMMUNITY PLANNER	PLANNING & HISTORIC DISTRICT	3,479.70
08/14/2023	4816(A)	INTERURBAN TRANSIT AUTHORITY	4TH JULY	324.00
08/14/2023	4817(A)	MC CANN INDUSTRIES INC	CASE BACKHOE REPAIR	1,344.23
08/14/2023	4818(A)	NEW AGE LABORATORIES	WATER TESTING	96.00
08/14/2023	4819(A)	OTTAWA AREA INTERMEDIATE SCHOOL DIS	PROPERTY TAXES	85,103.17
08/14/2023	4820(A)	PRO-TEMP INC	CONCESSION	780.33

09/07/2023 CHECK REGISTER FOR CITY OF SAUGATUCK				
CHECK DATE FROM 08/01/2023 - 08/31/2023				
Check Date	Check	Vendor Name	Description	Amount
08/14/2023	4821(A)	PURITY CYLINDER GASES INC	CONCESSION	19.57
08/14/2023	4822(A)	SAUGATUCK FIRE	RENTAL INSPECTIONS	450.00
08/14/2023	4823(A)	SEPTIC TANK SYSTEMS CO INC	PORTABLE TOILETS	935.00
08/14/2023	4824(A)	SHORELINE TECHNOLOGY SOLUTIONS	COMPUTER SERVICES	1,307.20
08/14/2023	4825(A)	SISTERS IN INK	OVAL BEACH STAFF	944.78
08/14/2023	4826(A)	SMART BUSINESS SOURCE LLC	SUPPLIES	230.12
08/14/2023	4827(A)	STANDARD INSURANCE COMPANY	INSURANCE	416.43
08/14/2023	17284	ERLANDSON CONCRETE LLC	SIDEWALKS & STREET CURBS	10,700.00
08/14/2023	4788(E)	AMERICAN BOTTLING COMPANY	BOTTLED WATER	1,404.00
08/18/2023	DD6279(A)	BOUWMAN, CHAD	PAYROLL	1,421.88
08/18/2023	DD6280(A)	BUTER, HUNTER	PAYROLL	957.31
08/18/2023	DD6281(A)	CUMMINS, RYAN	PAYROLL	2,246.08
08/18/2023	DD6282(A)	DEJAEGHER, JOHN	PAYROLL	1,070.46
08/18/2023	DD6283(A)	DOMBROSKI, NANCY	PAYROLL	1,230.53
08/18/2023	DD6284(A)	FIFELSKI, SARAH	PAYROLL	521.87
08/18/2023	DD6285(A)	FLANAGAN, HANNAH	PAYROLL	735.14
08/18/2023	DD6286(A)	FOXWORTHY, ETHAN	PAYROLL	211.44
08/18/2023	DD6287(A)	GARCIA, DANIELA	PAYROLL	958.18
08/18/2023	DD6288(A)	GOODRICH, RICHARD	PAYROLL	565.39
08/18/2023	DD6289(A)	GRIGG-MARTINEZ, DAYTON	PAYROLL	868.01
08/18/2023	DD6290(A)	HARDY, CODY	PAYROLL	1,474.40
08/18/2023	DD6291(A)	HEISE, RYAN	PAYROLL	3,464.35
08/18/2023	DD6292(A)	HERBERT, SCOTT	PAYROLL	2,080.49
08/18/2023	DD6293(A)	HINKLE, MARY	PAYROLL	1,084.77
08/18/2023	DD6294(A)	KERRIDGE, ADAM	PAYROLL	2,092.99
08/18/2023	DD6295(A)	LARSEN, SAGE	PAYROLL	559.94
08/18/2023	DD6296(A)	LLOYD, ERICA	PAYROLL	662.45
08/18/2023	DD6297(A)	MACK, ELLIS	PAYROLL	1,348.48
08/18/2023	DD6298(A)	MARTIN, DANNY	PAYROLL	1,104.48
08/18/2023	DD6299(A)	NYHOF, JACKSON	PAYROLL	769.05
08/18/2023	DD6300(A)	PETERS, ADDISON	PAYROLL	976.44
08/18/2023	DD6301(A)	PETERS, AVERY	PAYROLL	968.84
08/18/2023	DD6302(A)	PETERSON, BENJAMIN	PAYROLL	951.33
08/18/2023	DD6303(A)	PHELPS, BROOKLYN	PAYROLL	516.01
08/18/2023	DD6304(A)	PHELPS, PAIGE	PAYROLL	959.89
08/18/2023	DD6305(A)	SAMUELS, ROBERT	PAYROLL	567.75
08/18/2023	DD6306(A)	STANISLAWSKI, PETER	PAYROLL	1,470.94
08/18/2023	DD6307(A)	STEZOWSKI, LOGAN	PAYROLL	618.50
08/18/2023	DD6308(A)	STEZOWSKI, TYLER	PAYROLL	211.44
08/18/2023	DD6309(A)	STORK, JACK	PAYROLL	1,064.34
08/18/2023	DD6310(A)	VAN HOWE, AINSLEY	PAYROLL	586.30
08/18/2023	DD6311(A)	WATERS, BENJAMIN	PAYROLL	361.87
08/18/2023	DD6312(A)	WILLIAMS, ANTHONY	PAYROLL	211.44
08/18/2023	DD6313(A)	WILLIAMS, SARA	PAYROLL	1,742.70
08/18/2023	DD6314(A)	WOLTERS, JAMIE	PAYROLL	2,287.71
08/18/2023	EFT1714(E)	ALERUS	PAYROLL	3,410.43

09/07/2023 CHECK REGISTER FOR CITY OF SAUGATUCK				
CHECK DATE FROM 08/01/2023 - 08/31/2023				
Check Date	Check	Vendor Name	Description	Amount
08/18/2023	EFT1715(E)	EXPERT PAY	PAYROLL	139.54
08/18/2023	EFT1716(E)	MERS HYBRID	PAYROLL	2,113.49
08/18/2023	EFT1717(E)	FEDERAL TAX DEPOSIT	PAYROLL	11,613.69
08/18/2023	EFT1718(E)	MERS	PAYROLL	4,631.20
08/21/2023	EFT1709(E)	MI DEPT OF TREASURY	PAYROLL	3,841.42
08/28/2023	17302	FREESTONE PICKLE CO INC	CONCESSION	78.00
08/28/2023	17304	MORRISON INDUSTRIAL EQUIPMENT	REPAIR FORKLIFT	319.30
08/28/2023	4829(E)	GORDON FOOD SERVICE	CONCESSION	2,363.96
08/28/2023	4832(E)	MICHIGAN GAS UTILITIES	DPW GARAGE	42.45
08/28/2023	4833(E)	NET2PHONE INC	TELEPHONES	209.28
08/28/2023	4834(A)	ACTION INDUSTRIAL SUPPLY CO	UNIFORMS & SAFETY EQUIPMENT	240.39
08/28/2023	4835(A)	ALLEGAN COUNTY SHERIFF	RESERVE DEPUTIES	33,323.60
08/28/2023	4836(A)	ALLEGAN COUNTY TREASURER	CHARGE BACKS 828-014-00	137,965.01
08/28/2023	4837(A)	MICHIGAN CAT	FILTERS	397.03
08/28/2023	4838(A)	GRAND RAPIDS POPCORN	CONCESSION	474.00
08/28/2023	4839(A)	K&R TRUCK SALES INC	FUEL STRAINERS	500.07
08/28/2023	4840(A)	LANDSCAPE DESIGN SERVICES INC	ROSE GARDEN MAINTENANCE	760.00
08/28/2023	4841(A)	MICHIGAN ELECTRO FREEZE INC	CONCESSION	446.98
08/28/2023	4842(A)	OTTAWA AREA INTERMEDIATE SCHOOL DIS	PROPERTY TAXES	75,843.11
08/28/2023	4843(A)	RAF ELECTRIC	CITY HALL	150.00
08/28/2023	4844(A)	SAUGATUCK FIRE	SHORT TERM RENTALS	375.00
08/28/2023	4845(A)	SEPTIC TANK SYSTEMS CO INC	PORTABLE TOILETS CLEANINGS	3,190.00
08/28/2023	4846(A)	SISTERS IN INK	UNIFORMS	94.95
08/28/2023	4847(A)	STANDARD INSURANCE COMPANY	INSURANCE	416.43
08/28/2023	17299	AQUATIC DOCTORS LAKE MGT INC	MILFOIL TREATMENT	44,942.00
08/28/2023	17300	CARELTON EQUIPMENT	PARTS	772.50
08/28/2023	17301	DECKER EQUIPMENT	SUPPLIES TOILETS	239.46
08/28/2023	17303	MCKENNA	SHORT TERM RENTAL	8,447.50
08/28/2023	17305	OUTDOOR DISCOVERY CENTER	AIRPORT PROPERTY EVALUATION	3,500.00
08/28/2023	17306	SAUGATUCK PUBLIC SCHOOLS	PROPERTY TAXES	110,773.94
08/28/2023	17307	SCHIPPERS CONSTRUCTION LLC	184 PARK ESCROW	1,531.25
08/28/2023	17308	TOP GRADE AGGREGATES LLC	TOP SOIL	207.73
08/28/2023	17309	WESTENBROEK MOWER INC	PARTS	165.94
08/28/2023	17310	WYOMING ASPHALT PAVING CO	ASPHALT	269.34
08/28/2023	4828(E)	COMCAST	TELEPHONES & INTERNET	193.40
08/28/2023	4830(E)	JOHN DEERE FINANCIAL	PARTS & OILS	914.24
08/28/2023	4831(E)	KALAMAZOO LAKE SEWER & WATER	WATER & SEWER	3,575.76
08/31/2023	4848(E)	FRONTIER	OVAL BEACH	164.81
08/31/2023	4849(E)	REPUBLIC SERVICES	TRASH	205.95
08/31/2023	4850(E)	REPUBLIC SERVICES	TRASH	866.43
08/31/2023	4851(E)	REPUBLIC SERVICES	TRASH	973.61
08/31/2023	4852(E)	RICOH USA INC	COPIER LEASE	615.25
08/31/2023	4853(E)	HUNTINGTON NATIONAL BANK	SERVICE FEES	204.57
08/31/2023	4854(E)	MERS	RETIREMENT	4,500.00
Total of 180 Checks:				1,079,230.25



City Council Agenda Item Report

FROM: Ryan Cummins, Director of Planning and Zoning

MEETING DATE: September 11, 2023

SUBJECT: Resolution No.230911-A Resolution Extending the Temporary Waterfront Commercial Development and Construction Moratorium

DESCRIPTION:

After recommendations from the Planning Commission, the City Council enacted a temporary moratorium, through the adoption of Ordinances No. 230612-A and No. 230322-B, on Waterfront Commercial Development and Construction within the City. This includes new site developments including parking and site improvements, new building construction, and existing building expansion in the Waterfront Commercial Temporary Moratorium Area.

Since the moratorium was enacted, the Planning Commission has made good progress on the waterfront assessment project:

- Planning Consultant, David Jirousek, studied the area and provided an initial assessment report to both the Planning Commission and Historic District Commission. Both boards reviewed, discussed and provided feedback.
- Extensive public engagement was conducted with surveys and pop-up events with poster boards.
- Results of the community engagement efforts and Mr. Jirousek's recommendations were provided to the Planning Commission on August 17.
- Based on the Planning Commission feedback, Mr. Jirousek is drafting ordinance language changes for their review.

The draft language will be reviewed at the next Planning Commission meeting, and if the Planning Commission is satisfied, a public hearing will be held in October. The Planning Commission will then consider a recommendation for City Council. The City Council will then review and make a decision on the recommendations. This will likely take another three months to accomplish.

The moratorium is currently set to expire on September 30, 2023. The moratorium ordinances provide that the City Council may extend the moratorium by resolution from time-to-time to finish adopting new regulations governing uses in moratorium area. Extending the moratorium through December 31,

2023 will ensure the City has sufficient time to adopt new regulations governing uses in the moratorium area.

LEGAL REVIEW:

The City Attorney prepared the resolution to extend the moratorium. The City Attorney will be at your meeting to answer any questions you may have.

SAMPLE MOTIONS:

Motion to approve Resolution No. 230911-A A Resolution Extending the Temporary Waterfront Commercial Development and Construction Moratorium

**CITY OF SAUGATUCK
COUNTY OF ALLEGAN
STATE OF MICHIGAN**

RESOLUTION NO. _____

**A RESOLUTION EXTENDING THE TEMPORARY WATERFRONT COMMERCIAL
DEVELOPMENT AND CONSTRUCTION MORATORIUM**

Council Member _____, offered the following resolution and moved for its adoption, seconded by Council Member _____:

RECITALS

WHEREAS, the City of Saugatuck has enacted a temporary moratorium, through the adoption of Ordinances No. 230612-A and No. 230322-B (collectively, the “Moratorium”), on Waterfront Commercial Development and Construction within the City, which includes among other things new site developments including parking and site improvements, new building construction, and existing building expansion in the Waterfront Commercial Temporary Moratorium Area, as defined in the Moratorium;

WHEREAS, the Moratorium was enacted to provide the City with time study its zoning regulations and temporarily stop permitting, consideration, and construction within the Waterfront Commercial Temporary Moratorium Area to ensure the City can adequately develop land use regulations to protect the public health, safety, and general welfare of the City and its residents;

WHEREAS, the Moratorium is currently set to expire on September 30, 2023;

WHEREAS, the City has initiated the process of reviewing its zoning ordinance and revising regulations applicable to the Waterfront Commercial Temporary Moratorium Area to ensure that commercial waterfront development within the City will be regulated in an appropriate manner that protects the City’s waterways, natural resources, and economic land uses, but the City requires additional time to finish adopting new regulations governing uses in the Waterfront Commercial Temporary Moratorium Area;

WHEREAS, Section 2 of Ordinance No. 230612-A and Section 2 of Ordinance No. No. 230322-B provide that the City Council may extend the Moratorium by resolution from time-to-time to finish adopting new regulations governing uses in the Waterfront Commercial Temporary Moratorium Area; and

WHEREAS, the City of Saugatuck desires to extend the Moratorium through December 31, 2023 to ensure that it has sufficient time to adopt new regulations governing uses in the Waterfront Commercial Temporary Moratorium Area.

NOW, THEREFORE, BE IT RESOLVED that:

1. The City Council hereby extends the existing Moratorium imposed by Ordinances No.

230612-A and No. 230322-B on the permitting, accepting applications, approvals, and consideration of new site development including parking and site improvements, new building construction and existing building expansion in the Waterfront Commercial Temporary Moratorium Area under Michigan law until December 31, 2023, or an earlier time in which the City adopts new regulations governing uses in the Waterfront Commercial Temporary Moratorium Area and rescinds the Moratorium.

2. The City Council may further extend the Moratorium by resolution from time-to-time to finish adopting new regulations governing uses in the Waterfront Commercial Temporary Moratorium Area.

3. All resolutions and parts of resolutions in conflict herewith are, to the extent of such conflict, repealed.

YEAS: Council Members: _____

NAYS: Council Members: _____

ABSTAIN: Council Members: _____

ABSENT: Council Members: _____

ADOPTED this ____ day of _____, 2023

CITY OF SAUGATUCK

BY: _____
Scott Dean, Mayor

BY: _____
Jamie Wolters, City Clerk

CERTIFICATION

I, Jamie Wolters, the duly appointed clerk of the City of Saugatuck do hereby certify the foregoing is a true and complete copy of a resolution adopted by the City Council at a regular meeting held _____, 2023.

Signed: _____
Jamie Wolters, City Clerk



FROM: Jamie Wolters, City Clerk

MEETING DATE: September 11, 2023

SUBJECT: Household Hazardous Waste Day Right of Way Signage

DESCRIPTION

Saugatuck Douglas Rotary has submitted an application for signage installation of 1 banner.

The City Council may approve a banner as an exception, as listed in section 150.30(H). The conditions for approval of the exception are as follows:

1. The sign does not create a traffic vision obstruction;
2. The sign does not create a pedestrian traffic obstruction;
3. The sign is compatible with the surroundings and is not uniquely out of character for the community;
4. The sign does not create a situation which could be detrimental to health safety, or welfare; and,
5. The banner shall be displayed for no more than three 14-day periods between January 1 and December 31 of any year.

BUDGET ACTION REQUIRED

N/A

COMMITTEE/COMMISSION REVIEW

None

LEGAL REVIEW

None

SAMPLE MOTION:

Motion to approve/deny the request the signage request from the Saugatuck Douglas Rotary for Household Hazardous Waste Day for the dates of 9/18/23-9/27/23.



Right of Way Sign Application

APPLICANTS INFORMATION

APPLICATION NUMBER _____ - _____

Name SAUGATUCK DOUGLAS ROTARY Address / PO Box 211, DOUGLAS, MI 49406
 City DOUGLAS State MI Zip 49406 Phone (269)416-0738
 E-Mail leighgarnet@gmail.com
 Signature Garnet Luni Date 09.05.23

SIGN DESCRIPTION (ATTACH MORE SHEETS IF NECESSARY)Type: Number of Yard Signs 0 Number of Banners 1Dates to be displayed 09.18 - 09.27Further Comments: Banner to advertise the Household Hazardous Waste Day.**PLEASE INCLUDE THE FOLLOWING INFORMATION****Pursuant to Section 150.30, please attach the following supporting documents when applying for sign approval**

Y N NA

- Dimensions and type of each proposed sign 8' x 3
- Map showing the location of each sign PALETTE SIGN
- Explanation of how each sign will be attached and secured

Pursuant to Section 150.30(H), please to the following questions:

- Will the signs create a traffic vision obstruction?
- Will the signs create a pedestrian traffic obstruction?
- Are the signs compatible with the surroundings and is not uniquely out of character for the community? and
- Do the signs create a situation which could be detrimental to health, safety, or welfare?



City Council Agenda Item Report

FROM: Ryan Heise

MEETING DATE: 9/11/23

SUBJECT: 2023 Street Improvement Pay Application

DESCRIPTION:

City Council approved a public bid for street improvements with Krohn Excavating in the amount of \$475,198.00. Krohn has submitted their first pay application in the amount of \$41,217.51; Fleis & Venderbrink is recommending approval of the application.

BUDGET ACTION REQUIRED:

\$42,217.51 from road funds

COMMITTEE/COMMISSION REVIEW

NA

LEGAL REVIEW:

None

SAMPLE MOTION:

Move to approve the pay application to Krohn Excavating in the amount of \$41,217.51.



**City of Saugatuck
2023 Street Improvements
Pay Application Breakdown**

Project No.: 859770
By: JWM

Item No.	Item Description	Unit	Current Contract		Pay Application No. 1		Pay Application No. 2		Pay Application No. 3		Pay Application No. 4		Completed to Date	
			Quantity	Unit Price	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	
1	General Conditions, Bonds & Insurances, Max 5%	LSUM	1.00	\$ 23,000.00	\$ 23,000.00	0.50	\$ 11,500.00	\$ -	\$ -	\$ -	\$ -	0.50	\$ 11,500.00	
2	Preconstruction Video Survey	LSUM	1.00	\$ 2,000.00	\$ 2,000.00	1.00	\$ 2,000.00	\$ -	\$ -	\$ -	\$ -	1.00	\$ 2,000.00	
3	Exploratory Digging	Hr	10.00	\$ 260.00	\$ 2,600.00		\$ -	\$ -	\$ -	\$ -	0.00	\$ -		
4	Pavt, Rem	Syd	146.00	\$ 36.00	\$ 5,256.00		\$ -	\$ -	\$ -	\$ -	0.00	\$ -		
5	Sidewalk, Rem	Syd	2.00	\$ 250.00	\$ 500.00		\$ -	\$ -	\$ -	\$ -	0.00	\$ -		
6	Brick Paver, Rem and Salv	Sft	30.00	\$ 10.00	\$ 300.00		\$ -	\$ -	\$ -	\$ -	0.00	\$ -		
7	Roadway Grading	Sta	2.60	\$ 3,200.00	\$ 8,320.00		\$ -	\$ -	\$ -	\$ -	0.00	\$ -		
8	Subgrade Undercutting, Type II	Cyd	500.00	\$ 32.00	\$ 16,000.00		\$ -	\$ -	\$ -	\$ -	0.00	\$ -		
9	Aggregate, 6A	Ton	6.00	\$ 150.00	\$ 900.00		\$ -	\$ -	\$ -	\$ -	0.00	\$ -		
10	Erosion Control, Inlet Protection, Fabric Drop	Ea	30.00	\$ 80.00	\$ 2,400.00		\$ -	\$ -	\$ -	\$ -	0.00	\$ -		
11	Erosion Control, Silt Fence	Ft	500.00	\$ 4.00	\$ 2,000.00		\$ -	\$ -	\$ -	\$ -	0.00	\$ -		
12	Subbase, CIP	Cyd	580.00	\$ 23.00	\$ 13,340.00		\$ -	\$ -	\$ -	\$ -	0.00	\$ -		
13	Aggregate Base	Ton	500.00	\$ 26.00	\$ 13,000.00		\$ -	\$ -	\$ -	\$ -	0.00	\$ -		
14	Aggregate Base, 8 inch	Syd	1,380.00	\$ 11.50	\$ 15,870.00		\$ -	\$ -	\$ -	\$ -	0.00	\$ -		
15	HMA Base Crushing and Shaping	Syd	4,810.00	\$ 5.00	\$ 24,050.00	4,667.65	\$ 23,338.25	\$ -	\$ -	\$ -	\$ -	4,667.65	\$ 23,338.25	
16	Aggregate Surface Cse	Ton	15.00	\$ 50.00	\$ 750.00		\$ -	\$ -	\$ -	\$ -	0.00	\$ -		
17	Maintenance Gravel	Ton	20.00	\$ 30.00	\$ 600.00		\$ -	\$ -	\$ -	\$ -	0.00	\$ -		
18	Geotextile, Separator	Syd	700.00	\$ 3.00	\$ 2,100.00		\$ -	\$ -	\$ -	\$ -	0.00	\$ -		
19	Geogrid	Syd	570.00	\$ 3.00	\$ 1,710.00		\$ -	\$ -	\$ -	\$ -	0.00	\$ -		
20	Storm Sewer, 6 inch	Ft	149.00	\$ 33.00	\$ 4,917.00		\$ -	\$ -	\$ -	\$ -	0.00	\$ -		
21	Storm Sewer, 8 inch	Ft	1,266.00	\$ 40.00	\$ 50,640.00		\$ -	\$ -	\$ -	\$ -	0.00	\$ -		
22	Storm Wye, 6 inch x 6 inch	Ea	1.00	\$ 150.00	\$ 150.00		\$ -	\$ -	\$ -	\$ -	0.00	\$ -		
23	Storm Wye, 8 inch x 6 inch	Ea	6.00	\$ 200.00	\$ 1,200.00		\$ -	\$ -	\$ -	\$ -	0.00	\$ -		
24	Sewer Tap, 4 inch	Ea	3.00	\$ 150.00	\$ 450.00		\$ -	\$ -	\$ -	\$ -	0.00	\$ -		
25	Sewer Tap, 6 inch	Ea	2.00	\$ 200.00	\$ 400.00		\$ -	\$ -	\$ -	\$ -	0.00	\$ -		
26	Sewer Tap, 8 inch	Ea	1.00	\$ 250.00	\$ 250.00		\$ -	\$ -	\$ -	\$ -	0.00	\$ -		
27	Sewer Tap, 12 inch	Ea	4.00	\$ 400.00	\$ 1,600.00		\$ -	\$ -	\$ -	\$ -	0.00	\$ -		
28	Trench Undercutting and Backfill	Cyd	50.00	\$ 35.00	\$ 1,750.00		\$ -	\$ -	\$ -	\$ -	0.00	\$ -		
29	Dr Structure Cover, Adj, Case 1	Ea	13.00	\$ 450.00	\$ 5,850.00		\$ -	\$ -	\$ -	\$ -	0.00	\$ -		
30	Valve Box, Adj, Case 1	Ea	5.00	\$ 350.00	\$ 1,750.00		\$ -	\$ -	\$ -	\$ -	0.00	\$ -		
31	Valve Box, Adj, Case 2	Ea	1.00	\$ 250.00	\$ 250.00		\$ -	\$ -	\$ -	\$ -	0.00	\$ -		
32	Dr Structure Cover, Type C	Ea	20.00	\$ 900.00	\$ 18,000.00		\$ -	\$ -	\$ -	\$ -	0.00	\$ -		
33	Dr Structure Cover, Type Q	Ea	1.00	\$ 700.00	\$ 700.00		\$ -	\$ -	\$ -	\$ -	0.00	\$ -		
34	Leach Basin, 48 inch Dia	Ea	20.00	\$ 4,500.00	\$ 90,000.00		\$ -	\$ -	\$ -	\$ -	0.00	\$ -		
35	Yard Basin, 18 inch	Ea	2.00	\$ 1,800.00	\$ 3,600.00		\$ -	\$ -	\$ -	\$ -	0.00	\$ -		
36	Dr Structure, Tap, 6 inch	Ea	2.00	\$ 250.00	\$ 500.00		\$ -	\$ -	\$ -	\$ -	0.00	\$ -		
37	Dr Structure, Tap, 8 inch	Ea	1.00	\$ 300.00	\$ 300.00		\$ -	\$ -	\$ -	\$ -	0.00	\$ -		
38	Cold Milling HMA Surface	Syd	560.00	\$ 9.00	\$ 5,040.00	547.22	\$ 4,924.98	\$ -	\$ -	\$ -	\$ -	547.22	\$ 4,924.98	
39	HMA Surface, Rem	Syd	105.00	\$ 40.00	\$ 4,200.00		\$ -	\$ -	\$ -	\$ -	0.00	\$ -		
40	HMA, 4EL or 13A	Ton	1,180.00	\$ 96.00	\$ 113,280.00		\$ -	\$ -	\$ -	\$ -	0.00	\$ -		
41	HMA Approach	Ton	8.00	\$ 110.00	\$ 880.00		\$ -	\$ -	\$ -	\$ -	0.00	\$ -		
42	HMA Valley Gutter	Ft	3,224.00	\$ 3.00	\$ 9,672.00		\$ -	\$ -	\$ -	\$ -	0.00	\$ -		
43	HMA Spillway	Ea	4.00	\$ 300.00	\$ 1,200.00		\$ -	\$ -	\$ -	\$ -	0.00	\$ -		
44	Driveway, Nonreinf Conc, 6 inch	Syd	146.00	\$ 63.00	\$ 9,198.00		\$ -	\$ -	\$ -	\$ -	0.00	\$ -		
45	Sidewalk, Conc, 4 inch	Sft	18.00	\$ 20.00	\$ 360.00		\$ -	\$ -	\$ -	\$ -	0.00	\$ -		
46	Brick Paver, Reinstall	Sft	30.00	\$ 25.00	\$ 750.00		\$ -	\$ -	\$ -	\$ -	0.00	\$ -		
47	Post, Mailbox	Ea	26.00	\$ 120.00	\$ 3,120.00		\$ -	\$ -	\$ -	\$ -	0.00	\$ -		
48	Barricade, Type III, High Intensity, Lighted, Double Sided, Furn	Ea	16.00	\$ 60.00	\$ 960.00	16.00	\$ 960.00	\$ -	\$ -	\$ -	\$ -	16.00	\$ 960.00	
49	Barricade, Type III, High Intensity, Lighted, Double Sided, Oper	Ea	16.00	\$ 5.00	\$ 80.00	16.00	\$ 80.00	\$ -	\$ -	\$ -	\$ -	16.00	\$ 80.00	
50	Plastic Drum, Fluorescent, Furn	Ea	100.00	\$ 20.00	\$ 2,000.00	100.00	\$ 2,000.00	\$ -	\$ -	\$ -	\$ -	100.00	\$ 2,000.00	
51	Plastic Drum, Fluorescent, Oper	Ea	100.00	\$ 1.00	\$ 100.00	100.00	\$ 100.00	\$ -	\$ -	\$ -	\$ -	100.00	\$ 100.00	
52	Sign, Type B, Temp, Prismatic, Furn	Sft	300.00	\$ 2.00	\$ 600.00	298.00	\$ 596.00	\$ -	\$ -	\$ -	\$ -	298.00	\$ 596.00	
53	Sign, Type B, Temp, Prismatic, Oper	Sft	300.00	\$ 1.00	\$ 300.00	298.00	\$ 298.00	\$ -	\$ -	\$ -	\$ -	298.00	\$ 298.00	
54	Sign, Type B, Temp, Prismatic, Spec, Furn	Sft	50.00	\$ 8.00	\$ 400.00	0.00	\$ -	\$ -	\$ -	\$ -	0.00	\$ -		
55	Sign, Type B, Temp, Prismatic, Spec, Oper	Sft	50.00	\$ 1.00	\$ 50.00	0.00	\$ -	\$ -	\$ -	\$ -	0.00	\$ -		
56	Riprap, Plain	Syd	21.00	\$ 80.00	\$ 1,680.00		\$ -	\$ -	\$ -	\$ -	0.00	\$ -		
57	Turf Restoration	Syd	2,350.00	\$ 1.50	\$ 3,525.00		\$ -	\$ -	\$ -	\$ -	0.00	\$ -		
58	Mulch Blanket	Syd	100.00	\$ 8.00	\$ 800.00		\$ -	\$ -	\$ -	\$ -	0.00	\$ -		
			Total		\$ 475,198.00		\$ 45,797.23	\$ -	\$ -	\$ -	\$ -		\$ 45,797.23	
							Retainage (10%):	\$ 4,579.72	\$ -	\$ -	\$ -		\$ 4,579.72	
							Application Amount:	\$ 41,217.51	\$ -	\$ -	\$ -		\$ 41,217.51	

Contractor's Application for Payment

Owner:	<u>City of Saugatuck</u>	Owner's Project No.:	<u>N/A</u>
Engineer:	<u>Fleis & VandenBrink</u>	Engineer's Project No.:	<u>859770</u>
Contractor:	<u>Krohn Excavating</u>	Contractor's Project No.:	<u>N/A</u>
Project:	<u>2023 Street Improvements</u>		
Contract:	<u>N/A</u>		

Application No.:	<u>1</u>	Application Date:	<u>September 6, 2023</u>
Application Period:	From <u>August 1, 2023</u>	to	<u>September 1, 2023</u>

1. Original Contract Price	\$	475,198.00
2. Net change by Change Orders	\$	0.00
3. Current Contract Price (Line 1 + Line 2)	\$	475,198.00
4. Total Work completed and materials stored to date (Sum of Column G Lump Sum Total and Column J Unit Price Total)	\$	45,797.23
5. Retainage		
a. <u>10</u> X \$ Work Completed	\$	4,579.72
b. X \$ Stored Materials	\$	
c. Total Retainage (Line 5.a + Line 5.b)	\$	4,579.72
6. Amount eligible to date (Line 4 - Line 5.c)	\$	41,217.51
7. Less previous payments (Line 6 from prior application)		0.00
8. Amount due this application	\$	41,217.51
9. Balance to finish, including retainage (Line 3 - Line 4)	\$	433,980.49

Contractor's Certification

The undersigned Contractor certifies, to the best of its knowledge, the following:
 (1) All previous progress payments received from Owner on account of Work done under the Contract have been applied on account to discharge Contractor's legitimate obligations incurred in connection with the Work covered by prior Applications for Payment;
 (2) Title to all Work, materials and equipment incorporated in said Work, or otherwise listed in or covered by this Application for Payment, will pass to Owner at time of payment free and clear of all liens, security interests, and encumbrances (except such as are covered by a bond acceptable to Owner indemnifying Owner against any such liens, security interest, or encumbrances); and
 (3) All the Work covered by this Application for Payment is in accordance with the Contract Documents and is not defective.

Contractor: Steve Krohn
 Signature: *Steve Krohn* Date: 9/6/2023

Recommended by Engineer	Approved by Owner
By: <u><i>Jon Moxey</i></u>	By: _____
<u>Jon Moxey, PE</u>	_____

Title: <u>Project Manager</u>	Title: _____
Date: <u>9/6/2023</u>	Date: _____

Approved by Funding Agency	
By: <u>N/A</u>	By: <u>N/A</u>
_____	_____

Title: _____	Title: _____
Date: _____	Date: _____



City Council Agenda Item Report

FROM: Ryan Cummins, Director of Planning and Zoning

MEETING DATE: September 11, 2023

SUBJECT: AT&T Zoning Board of Appeals Application

DESCRIPTION:

For several months, City staff has been working with AT&T to install cellular antennae inside of the Mount Baldhead radar dome. Staff and legal recently conducted a review of any zoning requirements that may be required. The Mount Baldhead Project is for a proprietary function and is subject to the City's zoning.

The Mount Baldhead radar dome is in the City's Conservation Camp and Recreation (CRC) zoning district. In the CRC District, a cell tower, as proposed in the project, is not listed as a permitted or special land use. Essential public services is a permitted use, but the City Code's current definition of "essential services" expressly excludes cell towers. However, after a review of historical information on the uses of the site as well as previous zoning provisions, use of the Mount Baldhead radar dome as a host site for communications antennae, including a cell antenna since 2002, is a lawful nonconforming use under the City Code.

AT&T has plans to install the cellular antenna inside of the radar dome and is proposing equipment on a new platform outside of the current structures on site. The zoning ordinance allows for lawful nonconforming uses to be extended internally, but prohibits a use from being extended to occupy any land or air space outside existing buildings.

To build the equipment installation, which will require a new structure outside of the footprint of the existing improvements on the property, will require a dimensional variance from the City's Zoning Board of Appeals. AT&T has submitted an application for a dimensional variance. An owner of property has to grant permission for a ZBA application. The City is the owner of the property and AT&T is requesting City approval to submit the attached variance application.

LEGAL REVIEW:

Legal has reviewed the zoning requirements and process.

SAMPLE MOTIONS:

Motion to **approve/deny** the request from AT&T to submit a dimensional variance request application for 750 Park Street to the Zoning Board of Appeals and authorize the Mayor to sign.



Zoning Board of Appeals Application

LOCATION INFORMATION APPLICATION NUMBER _____ - _____

Address _____ Parcel Number _____

APPLICANTS INFORMATION

Name _____ Address / PO Box _____
City _____ State _____ Zip _____ Phone _____
Interest In Project _____ E-Mail _____
Signature _____ Date _____

OWNERS INFORMATION (IF DIFFERENT FROM APPLICANTS)

Name _____ Address / PO Box _____
City _____ State _____ Zip _____ Phone _____
E-Mail _____

I hereby authorize that the applicant as listed above is authorized to make this application for proposed work as my agent and we agree to conform to all applicable laws and regulations of the City of Saugatuck. I additionally grant City of Saugatuck staff or authorized representatives thereof access to the property to inspect conditions, before, during, and after the proposed work is completed or to gather further information related to this request.

Signature _____ Date _____

CONTRACTORS/ DEVELOPERS INFORMATION (UNLESS PROPOSED WORK IS TO BE DONE BY THE PROPERTY OWNER)

Name _____ Contact Name _____
Address / PO Box _____ City _____
State _____ Zip _____ Phone _____ Fax _____
E-Mail _____
License Number _____ Expiration Date _____

PROPERTY INFORMATION

Depth _____ Width _____ Size _____ Zoning District _____ Current Use _____
Check all that apply: Waterfront _____ Historic District _____ Dunes _____ Vacant _____
Application Type: Interpretation _____ Dimensional Variance _____ Use Variance _____

REQUESTED VARIANCE AND DESCRIPTION (ATTACH MORE SHEETS IF NECESSARY)

Zoning Requirement _____ Proposed Variance _____
Zoning Requirement _____ Proposed Variance _____
Zoning Requirement _____ Proposed Variance _____



SITE PLAN REQUIREMENTS (SECTION 154.061)

A site plan and survey showing the following information shall be submitted with the coverage of this application and other required information as outlined below. (Please note that not all will apply for minor waterfront construction)

Y N NA

- Dimensions of property of the total site area,
- Contours at 2-foot intervals
- Locations of all buildings
- Other structures on adjacent properties within 100 feet of the property, including those located across the street from the property
- Parking areas
- Driveways
- Required and proposed building setbacks
- Location of abutting streets and proposed alignment of streets, drives and easements serving the development, including existing rights-of-way and pavement widths;
- Location, screening, dimensions and heights of proposed buildings and structures, such as trash receptacles, utility pads and the like, including accessory buildings and uses, and the intended uses thereof. Rooftop or outdoor appurtenances should also be indicated, including proposed methods of screening the equipment, where appropriate;
- Location and dimensions of parking areas, including computations of parking requirements, typical parking space dimensions, including handicapped spaces, and aisle widths;
- Proposed water supply and wastewater systems locations and sizes;
- Proposed finished grades and site drainage patterns, including necessary drainage structure. Where applicable, indicate the location and elevation of the 100-year floodplain;
- Proposed common open spaces and recreational facilities, if applicable;
- Proposed landscaping, including quantity, size at planting and botanical and common names of plant materials;
- Signs, including type, locations and sizes;
- Location and dimensions of all access drives, including driveway dimensions, pavement markings, traffic-control signs or devices, and service drives;
- Exterior lighting showing area of illumination and indicating the type of fixture to be used.
- Elevations of proposed buildings drawn to an appropriate scale shall include:
 1. Front, side and rear views;
 2. Heights at street level, basement floor level, top of main floor, top of building, and if applicable, height above water level; and
 3. Exterior materials and colors to be used.
- Location, if any, of any views from public places to public places across the property;
- Location, height and type of fencing; and



- The name and address of the person and firm who drafted the plan, the seal of the professional responsible for the accuracy of the plan (licensed in the state) and the date on which the plan was prepared.
- Other information as requested by the Zoning Administrator

DIMENSIONAL VARIANCE REQUEST STANDARDS PER SECTION 154.155(B)

Please respond to each of the following questions. As part of your request to obtain a dimensional or non-use variance, the owner must show a practical difficulty by demonstrating that all of the following standards are met:

- (1) Explain how strict compliance with area, setbacks, frontage, height, bulk or density would unreasonably prevent the owner from using the property for a permitted purpose, or would render conformity unnecessarily burdensome;

- (2) Explain how a variance would do substantial justice to the owner as well as to other property owners in the district, or whether a lesser relaxation would give substantial relief and be more consistent with justice to others;

- (3) Explain how the plight of the owner is due to unique circumstances of the property and not to general neighborhood conditions; and

- (4) Explain how the problem is not self-created or based on personal financial circumstances.



USE VARIANCE REQUEST STANDARDS PER SECTION 154.155(C)

Please respond to each of the following questions. As part of your request to obtain a use variance, the applicant must show an unnecessary hardship by demonstrating that all of the following standards are met:

- (1) Please explain how the property in question cannot be used for any of the uses permitted in the district in which it is located;

- (2) Please explain how the plight of the owner is due to unique circumstances of the property and not to general neighborhood conditions;

- (3) Please explain how by granting the variance, the essential character of the neighborhood would not be altered; and

- (4) Please explain how the problem is not self-created or based on personal financial circumstances.



OFFICE USE ONLY:

Application Complete _____ Date _____ Fee Paid _____ Date Paid _____

Date Notice Sent _____ Date Resident Notification _____ Hearing Date _____

Notes: _____

Motion to Approve _____ Deny _____

Findings of Fact:

Chair Signature _____	Vote _____
Member Signature _____	Vote _____
Member Signature _____	Vote _____
Member Signature _____	Vote _____
Member Signature _____	Vote _____



AT&T SITE NUMBER: GRANMI5943
AT&T SITE NAME: SAUGATUCK
AT&T FA CODE: 15448500
AT&T PACE NUMBER: MRIND050522,MRIND054525,MRIND054513,MRIND054529,MRIND054545,MRIND054518,MRIND054532
SITE TYPE: SELF SUPPORT TOWER WITH RADOME

SITE ADDRESS: 750 PARK ST.
 SAUGATUCK, MI 49453
COUNTY: ALLEGAN
TOWER HEIGHT: 90'-0"



AT&T SITE NUMBER:
GRANMI5943

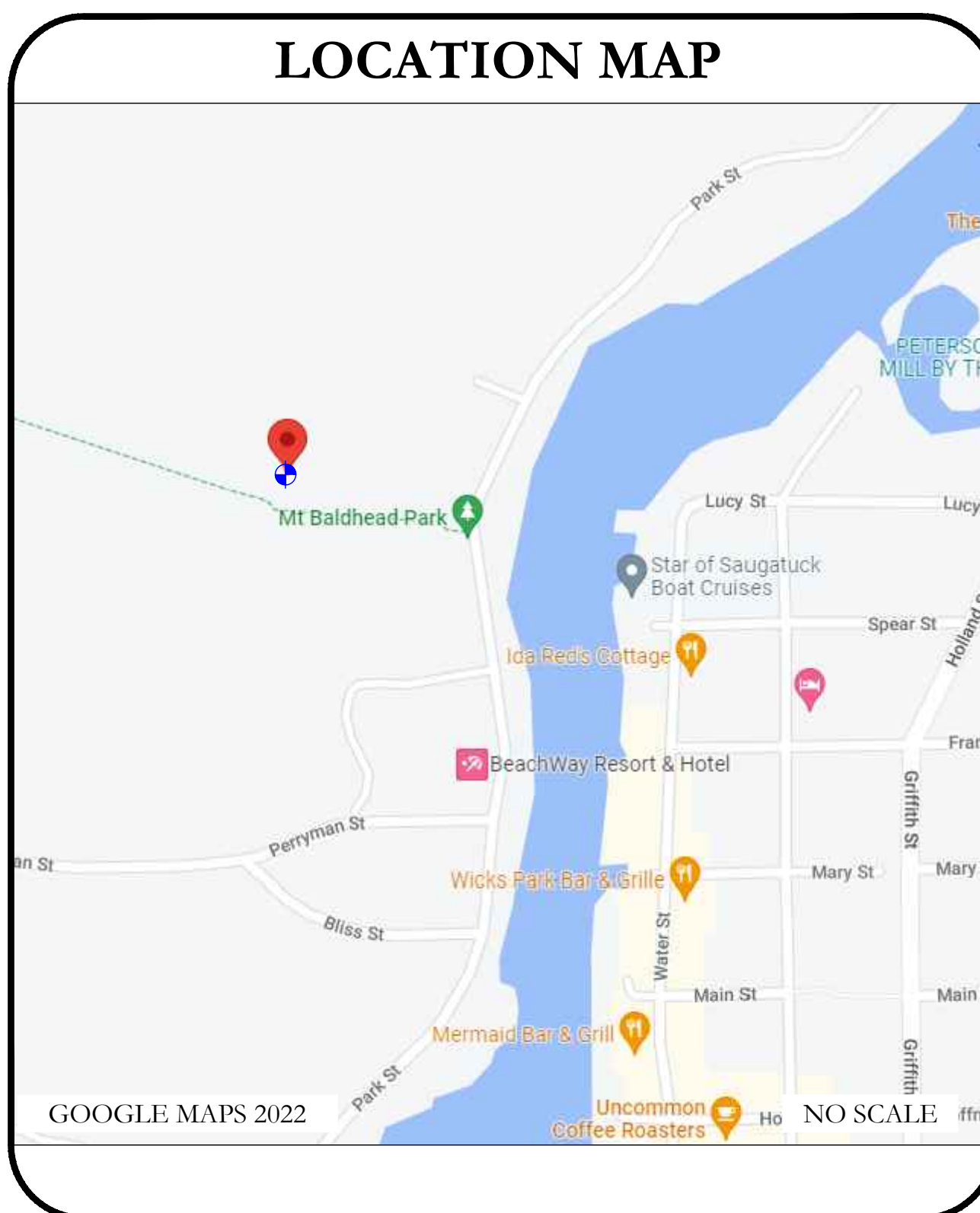
 750 PARK ST.
 SAUGATUCK, MI 49453

 EXISTING 90'-0" SELF
 SUPPORT TOWER WITH
 RADOME

PROJECT: AT&T LTE

SITE INFORMATION	
AT&T SITE NAME:	SAUGATUCK
SITE ADDRESS:	750 PARK ST. SAUGATUCK, MI 49453
COUNTY:	ALLEGAN
MAP/PARCEL #:	57-009-052-01 / 57-009-050-00
AREA OF CONSTRUCTION:	EXISTING
LATITUDE:	42° 39' 40.70" N
LONGITUDE:	86° 12' 32.90" W
LAT/LONG TYPE:	NAD83
GROUND ELEVATION:	+/- 805.1' AMSL (1A LETTER DATED 10/04/2022)
CURRENT ZONING:	CRC
JURISDICTION:	CITY OF SAUGATUCK
OCCUPANCY CLASSIFICATION:	U
TYPE OF CONSTRUCTION:	VB
A.D.A. COMPLIANCE:	FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION
PROPERTY OWNER:	CITY OF SAUGATUCK PO BOX 86 SAUGATUCK, MI 49453
CARRIER/APPLICANT:	AT&T MOBILITY 16025 NORTHLAND DRIVE SOUTHFIELD, MI 48075
ELECTRIC PROVIDER:	CONSUMERS ENERGY CO. 800-477-5050
TELCO PROVIDER:	TBD TBD

DRAWING INDEX	
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G-5	GROUNDING SCHEMATIC & NOTES
SUR.	SURVEY
A.O.D	AREA OF VEGETATIVE DISTURBANCE



PROJECT TEAM	
A&E FIRM:	GPD GROUP PROFESSIONAL CORPORATION 520 SOUTH MAIN ST, SUITE 2531 AKRON, OH 44311 CONTACT: TRACI PREBLE, 317-299-3164

PROJECT DESCRIPTION	
THE PURPOSE OF THIS PROJECT IS TO PROPOSE AN ANTENNA MODIFICATION ON AN EXISTING WIRELESS SITE.	
TOWER SCOPE OF WORK	
<ul style="list-style-type: none"> • INSTALL (6) COMMSCOPE NNH4-65C-R6-V3 ANTENNAS • INSTALL (3) NOKIA B12/14/29 AHLBBA RRUS • INSTALL (3) NOKIA B25/66 AHFIB RRUS • INSTALL (3) NOKIA B30 AHNA RRUS • INSTALL (3) NOKIA B5 AHCA RRUS • INSTALL (2) DC9-48-60-24-8C-EV DC/FIBER DEMARCATION BOXES • INSTALL (3) FIBER TRUNKS • INSTALL (9) DC TRUNKS 	
GROUND SCOPE OF WORK:	
<ul style="list-style-type: none"> • INSTALLATION OF NEW GENERATOR & EQUIPMENT CABINETS • INSTALLATION OF NEW PLATFORM • INSTALLATION OF NEW FENCE AND GATE • INSTALLATION OF NEW ELECTRICAL SERVICE 	

APPLICABLE CODES/REFERENCE DOCUMENTS

ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES:

CODE TYPE	CODE
BUILDING	2015 MICHIGAN BUILDING CODE
	2015 IBC W/ STATE AMENDMENTS
MECHANICAL	2015 MICHIGAN MECHANICAL CODE
	2015 IMC W/ STATE AMENDMENTS
ELECTRICAL	NATIONAL ELECTRICAL CODE
	2014 NEC W/ AMENDMENTS

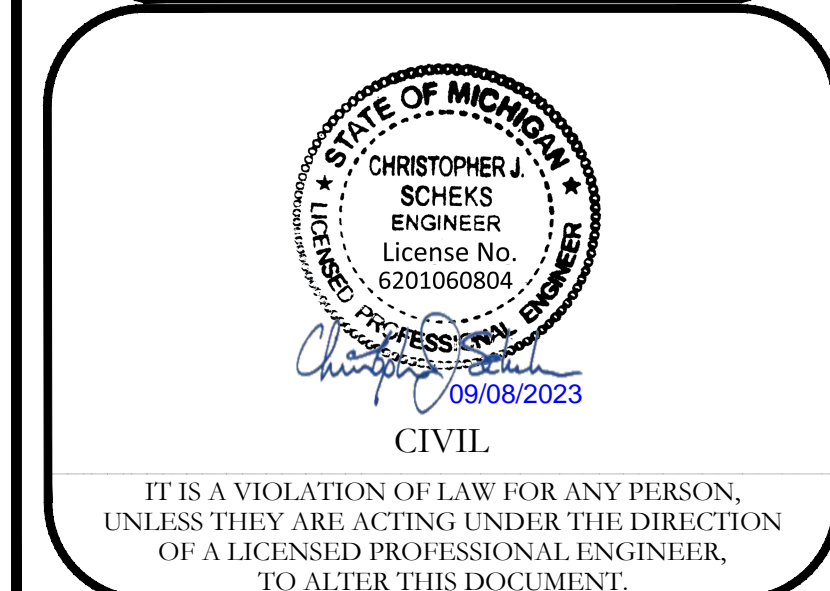
DESIGN PACKAGE BASED ON THE RFDS
 REVISION: V02
 DATE: 09/23/2021

REFERENCE DOCUMENTS:
 MOUNT ANALYSIS:
 THE MOUNT ANALYSIS PERFORMED BY GPD GROUP PROFESSIONAL CORPORATION (PROJECT #2023723.16.307394.03 DATED 06/06/2023) FINDS THE MOUNT HAS SUFFICIENT CAPACITY TO CARRY THE PROPOSED LOADING CONFIGURATION ONCE THE RECOMMENDED MODIFICATIONS HAVE BEEN PERFORMED.

STRUCTURAL ANALYSIS:
 THE TOWER STRUCTURAL ANALYSIS PERFORMED BY GPD GROUP PROFESSIONAL CORPORATION (PROJECT #2023723.16.307394.02 DATED 05/03/2023) FINDS THE TOWER HAS SUFFICIENT CAPACITY TO CARRY THE PROPOSED LOADING CONFIGURATION.

CALL MICHIGAN ONE CALL
 (800) 482-7171
 CALL 3 WORKING DAYS
 BEFORE YOU DIG!

ISSUED FOR:				
REV	DATE	DRWN	DESCRIPTION	DES./QA
A	10/21/2022	CRM	90% CD's FOR REVIEW	ES
B	10/26/2022	CRM	REV. PER COMMENTS	ES
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J	07/05/2023	CRM	REV. PER COMMENTS	ES
K	08/23/2023	CRM	REV. PER COMMENTS	ES
L	09/08/2023	CRM	FOR ZONING	ES



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SHEET NUMBER: T-1 REVISION: L

SITE WORK GENERAL NOTES:

1. THE SUBCONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
2. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY CONTRACTOR. EXTREME CAUTION SHOULD BE USED BY THE SUBCONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES, SUBCONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION B) CONFINED SPACE C) ELECTRICAL SAFETY D) TRENCHING AND EXCAVATION.
3. ALL SITE WORK TO COMPLY WITH QAS-STD-10068 "INSTALLATION STANDARDS FOR CONSTRUCTION ACTIVITIES ON ERICSSON TOWER SITE" AND LATEST VERSION OF TIA 1019 "STANDARD FOR INSTALLATION, ALTERATION, AND MAINTENANCE OF ANTENNA SUPPORTING STRUCTURES AND ANTENNAS."
4. ALL SITE WORK SHALL BE AS INDICATED ON THE STAMPED CONSTRUCTION DRAWINGS AND PROJECT SPECIFICATIONS.
5. IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
6. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF CONTRACTOR, OWNER AND/OR LOCAL UTILITIES.
7. THE SUBCONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATION FOR SITE SIGNAGE.
8. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE BTS EQUIPMENT AND TOWER AREAS.
9. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
10. THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
11. THE AREAS OF THE OWNERS PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION AS SPECIFIED ON THE PROJECT SPECIFICATIONS.
12. SUBCONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.
13. NOTICE TO PROCEED- NO WORK TO COMMENCE PRIOR TO COMPANY'S WRITTEN NOTICE TO PROCEED AND THE ISSUANCE OF A PURCHASE ORDER.
14. ALL CONSTRUCTION MEANS AND METHODS; INCLUDING BUT NOT LIMITED TO, ERECTION PLANS, RIGGING PLANS, CLIMBING PLANS, AND RESCUE PLANS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR RESPONSIBLE FOR THE EXECUTION OF THE WORK CONTAINED HEREIN AND SHALL MEET ANSI/TIA 1019 (LATEST EDITION), OSHA, AND GENERAL INDUSTRY STANDARDS. ALL RIGGING PLANS SHALL ADHERE TO ANSI/TIA-1019 (LATEST EDITION) INCLUDING THE REQUIRED INVOLVEMENT OF A QUALIFIED ENGINEER FOR CLASS IV CONSTRUCTION.

GENERAL NOTES:

1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:
 CONTRACTOR- _____
 SUBCONTRACTOR- GENERAL CONTRACTOR (CONSTRUCTION)
 CARRIER- AT&T
 BUILDING OWNER- CITY OF SAUGATUCK
 OEM- ORIGINAL EQUIPMENT MANUFACTURER
2. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING SUBCONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CONTRACTOR AND ERICSSON.
3. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. SUBCONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
4. DRAWINGS PROVIDED HERE ARE NOT TO SCALE AND ARE INTENDED TO SHOW OUTLINE ONLY.
5. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
6. "KITTING LIST" SUPPLIED WITH THE BID PACKAGE IDENTIFIES ITEMS THAT WILL BE SUPPLIED BY CONTRACTOR. ITEMS NOT INCLUDED IN THE BILL OF MATERIALS AND KITTING LIST SHALL BE SUPPLIED BY THE SUBCONTRACTOR.
7. THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
8. IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE CONTRACTOR AND ERICSSON PRIOR TO PROCEEDING WITH ANY SUCH CHANGE OF INSTALLATION.
9. SUBCONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER AND T1 CABLES, GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TELCO PLAN DRAWINGS.
10. THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.
11. SUBCONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
12. SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION. TRASH AND DEBRIS SHOULD BE REMOVED FROM SITE ON A DAILY BASIS.



AT&T SITE NUMBER:
GRANMI5943

750 PARK ST.
 SAUGATUCK, MI 49453

EXISTING 90'-0" SELF
 SUPPORT TOWER WITH
 RADOME

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
A	10/21/2022	CRM	90% CD's FOR REVIEW	ES
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K	08/23/2023	CRM	REV. PER COMMENTS	ES
L	09/08/2023	CRM	FOR ZONING	ES

STATE OF MICHIGAN
 CHRISTOPHER J. SCHEKS
 ENGINEER
 License No. 6201060804
 09/08/2023
 CIVIL

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 UNLESS THEY ARE ACTING UNDER THE DIRECTION
 OF A LICENSED PROFESSIONAL ENGINEER,
 TO ALTER THIS DOCUMENT.

SHEET NUMBER: **T-2** REVISION: **L**

STRUCTURAL STEEL NOTES:

1. ALL STEEL WORK SHALL BE PAINTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND IN ACCORDANCE WITH ASTM A36 UNLESS OTHERWISE NOTED.
2. BOLTED CONNECTIONS SHALL BE ASTM A325 BEARING TYPE (3/4"Ø) CONNECTIONS AND SHALL HAVE MINIMUM OF TWO BOLTS UNLESS NOTED OTHERWISE.
3. NON-STRUCTURAL CONNECTIONS FOR STEEL GRATING MAY USE 5/8"Ø ASTM A307 BOLTS UNLESS NOTED OTHERWISE.
4. INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHOR, SHALL BE PER MANUFACTURER'S RECOMMENDED PROCEDURE. THE ANCHOR BOLT, DOWEL OR ROD SHALL CONFORM TO MANUFACTURER'S RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBAR SHALL BE CUT WITHOUT PRIOR CONTRACTOR APPROVAL WHEN DRILLING HOLES IN CONCRETE. SPECIAL INSPECTIONS, REQUIRED BY GOVERNING CODES, SHALL BE PERFORMED IN ORDER TO MAINTAIN MANUFACTURER'S MAXIMUM ALLOWABLE LOADS.

MASONRY NOTES:

1. HOLLOW CONCRETE MASONRY UNITS SHALL MEET A.S.T.M. SPECIFICATION C90, GRADE N, TYPE 1. THE SPECIFIED DESIGN COMPRESSIVE STRENGTH OF CONCRETE MASONRY (F'm) SHALL BE 1500 PSI.
2. MORTAR SHALL MEET THE PROPERTY SPECIFICATION OF A.S.T.M. C270 TYP. "S" MORTAR AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI.
3. GROUT SHALL MEET A.S.T.M. SPECIFICATION C475 AND HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 2000 PSI.
4. CONCRETE MASONRY SHALL BE LAID IN RUNNING (COMMON) BOND.
5. WALL SHALL RECEIVE TEMPORARY BRACING. TEMPORARY BRACING SHALL NOT BE REMOVED UNTIL GROUT IS FULLY CURED.

CONCRETE AND REINFORCING STEEL NOTES:

1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 336, ASTM A184, ASTM A185 AND THE DESIGN AND CONSTRUCTION SPECIFICATION FOR CAST-IN-PLACE CONCRETE.
2. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS, UNLESS NOTED OTHERWISE. SLAB FOUNDATION DESIGN ASSUMING ALLOWABLE SOIL BEARING PRESSURE OF 2000 PSF.
3. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, DEFORMED UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185 WELDED STEEL WIRE FABRIC UNLESS NOTED OTHERWISE. SPLICES SHALL BE CLASS "B" AND ALL HOOKS SHALL BE STANDARD, UNO.
4. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:
 CONCRETE CAST AGAINST EARTH.....3 IN.
 CONCRETE EXPOSED TO EARTH OR WEATHER:
 #6 AND LARGER.....2 IN.
 #5 AND SMALLER & WWF.....1 1/2 IN.
 CONCRETE NOT EXPOSED TO EARTH OR WEATHER OR NOT CAST AGAINST THE GROUND:
 SLAB AND WALLS.....3/4 IN.
 BEAMS AND COLUMNS.....1 1/2 IN.
5. A CHAMFER 3/4" SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNLESS NOTED OTHERWISE. IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.



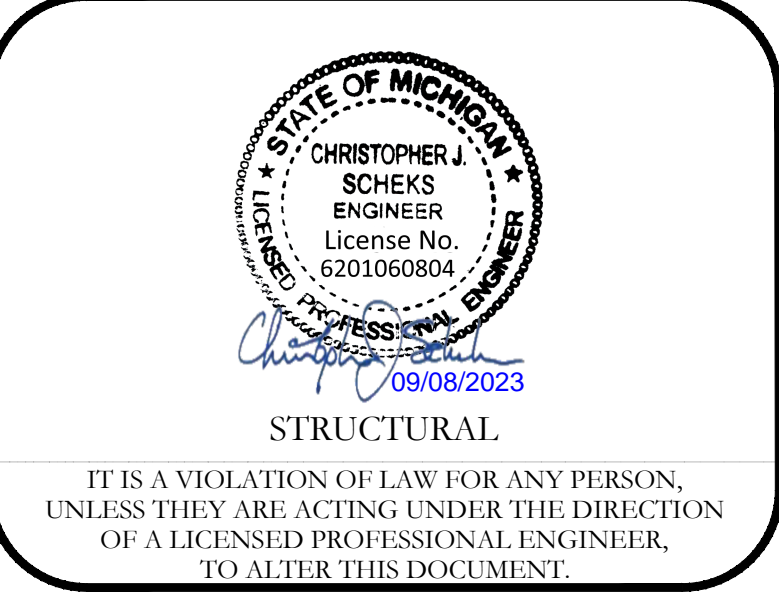
AT&T SITE NUMBER:
GRANMI5943

750 PARK ST.
 SAUGATUCK, MI 49453

EXISTING 90'-0" SELF
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SHEET NUMBER: **T-3** REVISION: **L**

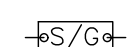
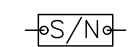
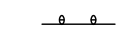
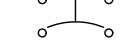
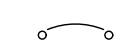







ELECTRICAL INSTALLATION NOTES:

- ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES/ORDINANCES.
- CONDUIT ROUTINGS ARE SCHEMATIC. SUBCONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED AND TRIP HAZARDS ARE ELIMINATED.
- WIRING, RACEWAY AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC. HILTI EPOXY ANCHORS ARE REQUIRED BY ERICSSON.
- ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC.
- CABLES SHALL NOT BE ROUTED THROUGH LADDER-STYLE CABLE TRAY RUNGS.
- EACH END OF EVERY POWER, POWER PHASE CONDUCTOR (I.E., HOTS), GROUNDING AND T1 CONDUCTOR AND CABLE SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2" PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC AND OSHA.
- ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH PLASTIC TAPE PER COLOR SCHEDULE. ALL EQUIPMENT SHALL BE LABELED WITH THEIR VOLTAGE RATING, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING AND BRANCH CIRCUIT ID NUMBERS (I.E. PANEL BOARD AND CIRCUIT ID'S).
- PANEL BOARDS (ID NUMBERS) AND INTERNAL CIRCUIT BREAKERS (CIRCUIT ID NUMBERS) SHALL BE CLEARLY LABELED WITH PLASTIC LABELS.
- ALL TIE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES.
- POWER, CONTROL AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE CONDUCTOR (#14 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90° C (WET & DRY) OPERATION LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED UNLESS OTHERWISE SPECIFIED.
- SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE CONDUCTOR (#6 AWG OR LARGER), 600V, OIL RESISTANT THHN OR THWN-2 GROUND INSULATION CLASS B STRANDED COPPER CABLE RATED FOR 90° C (WET AND DRY) OPERATION LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED UNLESS OTHERWISE SPECIFIED.
- POWER AND CONTROL WIRING, NOT IN TUBING OR CONDUIT, SHALL BE MULTI-CONDUCTOR, TYPE TC CABLE (#14 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90° C (WET AND DRY) OPERATION WITH OUTER JACKET LISTED OR LABELED FOR THE LOCATION USED UNLESS OTHERWISE SPECIFIED.
- ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP-STYLE, COMPRESSION WIRE LUGS AND WIRE NUTS BY THOMAS AND BETTS (OR EQUAL). LUGS AND WIRE NUTS SHALL BE RATED FOR OPERATION AT NO LESS THAN 75° C (90° C IF AVAILABLE).
- RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND NEC.
- ELECTRICAL METALLIC TUBING (EMT) OR RIGID NONMETALLIC CONDUIT (I.E. RIGID PVC SCHEDULE 40 OR RIGID PVC SCHEDULE 80 FOR LOCATIONS SUBJECT TO PHYSICAL DAMAGE) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.
- ELECTRICAL METALLIC TUBING (EMT), ELECTRICAL NONMETALLIC TUBING (ENT) OR RIGID NONMETALLIC CONDUIT (RIGID PVC, SCHEDULE 40) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.
- SCHEDULE 40 PVC UNDERGROUND ON STRAIGHTS AND SCHEDULE 80 PVC FOR ALL ELBOWS/90s AND ALL APPROVED ABOVE GRADE PVC CONDUIT.
- LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.
- CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED. SET SCREW FITTINGS ARE NOT ACCEPTABLE.
- CABINETS, BOXES AND WIRE WAYS SHALL BE LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND NEC.
- WIREWAYS SHALL BE EPOXY-COATED (GRAY) AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARDS; SHALL BE PANDUIT TYPE E (OR EQUAL); AND RATED NEMA 1 (OR BETTER).
- CONDUITS SHALL BE FASTENED SECURELY IN PLACE WITH APPROVED NON-PERFORATED STRAPS AND HANGERS. EXPLOSIVE DEVICES FOR ATTACHING HANGERS TO STRUCTURE WILL NOT BE PERMITTED. CLOSELY FOLLOW THE LINES OF THE STRUCTURE, MAINTAIN CLOSE PROXIMITY TO THE STRUCTURE AND KEEP CONDUITS IN TIGHT ENVELOPES. CHANGES IN DIRECTION TO ROUTE AROUND OBSTACLES SHALL BE MADE WITH CONDUIT OUTLET BODIES. CONDUIT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. PARALLEL AND PERPENDICULAR TO STRUCTURE WALL AND CEILING LINES. ALL CONDUIT SHALL BE FISHED TO CLEAR OBSTRUCTIONS. ENDS OF CONDUITS SHALL BE TEMPORARILY CAPPED FLUSH TO FINISH GRADE TO PREVENT CONCRETE, PLASTER OR DIRT FROM ENTERING. CONDUITS SHALL BE RIGIDLY CLAMPED TO BOXES BY GALVANIZED MALLEABLE IRON BUSHIN ON INSIDE AND GALVANIZED MALLEABLE IRON LOCKNUT ON OUTSIDE AND INSIDE.
- EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES AND PULL BOXES SHALL BE GALVANIZED OR EPOXY-COATED SHEET STEEL; SHALL MEET OR EXCEED UL 50 AND RATED NEMA 1 (OR BETTER) INDOORS OR NEMA 3R (OR BETTER) OUTDOORS.
- METAL RECEPTACLE, SWITCH AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY-COATED OR NON-CORRODING; SHALL MEET OR EXCEED UL 514A AND NEMA OS 1; AND RATED NEMA 1 (OR BETTER) INDOORS OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
- NONMETALLIC RECEPTACLE, SWITCH AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2; AND RATED NEMA 1 (OR BETTER) INDOORS OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
- THE SUBCONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CONTRACTOR BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.
- THE SUBCONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD LIFE AND PROPERTY.
- INSTALL PLASTIC LABEL ON THE METER CENTER TO SHOW "AT&T".
- ALL CONDUITS THAT ARE INSTALLED ARE TO HAVE A METERED MULE TAPE PULL CORD INSTALLED.

GREENFIELD GROUNDING NOTES:

- ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION AND AC POWER GES'S) SHALL BE BONDED TOGETHER AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.
- THE SUBCONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR GROUND ELECTRODE SYSTEMS. THE SUBCONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.
- THE SUBCONTRACTOR IS RESPONSIBLE FOR PROPERLY SEQUENCING GROUNDING AND UNDERGROUND CONDUIT INSTALLATION AS TO PREVENT ANY LOSS OF CONTINUITY IN THE GROUNDING SYSTEM OR DAMAGE TO THE CONDUIT AND PROVIDE TESTING RESULTS.
- METAL CONDUIT AND TRAY SHALL BE GROUNDING AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH #6 AWG COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.
- METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EQUIPMENT.
- EACH CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, 6 AWG STRANDED COPPER OR LARGER FOR INDOOR BTS; #2 AWG SOLID TINNED COPPER FOR OUTDOOR BTS.
- CONNECTIONS TO THE GROUND BUS SHALL NOT BE DOUBLED UP OR STACKED BACK TO BACK CONNECTIONS ON OPPOSITE SIDE OF THE GROUND BUS ARE PERMITTED.
- ALL EXTERIOR GROUND CONDUCTORS BETWEEN EQUIPMENT/GROUND BARS AND THE GROUND RING SHALL BE #2 AWG SOLID TINNED COPPER UNLESS OTHERWISE INDICATED.
- ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
- USE OF 90° BENDS IN THE PROTECTION GROUNDING CONDUCTORS SHALL BE AVOIDED WHEN 45° BENDS CAN BE ADEQUATELY SUPPORTED.
- EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
- ALL GROUND CONNECTIONS ABOVE GRADE (INTERIOR AND EXTERIOR) SHALL BE FORMED USING HIGH PRESS CRIMPS.
- COMPRESSION GROUND CONNECTIONS MAY BE REPLACED BY EXOTHERMIC WELD CONNECTIONS.
- ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO THE BRIDGE AND THE TOWER GROUND BAR.
- APPROVED ANTIOXIDANT COATINGS (I.E. CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
- ALL EXTERIOR GROUND CONNECTIONS SHALL BE COATED WITH A CORROSION RESISTANT MATERIAL.
- MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.
- BOND ALL METALLIC OBJECTS WITHIN 6 FT. OF MAIN GROUND WIRES WITH 1-#2 AWG TIN-PLATED COPPER GROUND CONDUCTOR.
- GROUND CONDUCTORS USED IN THE FACILITY GROUND AND LIGHTNING PROTECTION SYSTEMS SHALL NOT BE ROUTED THROUGH METALLIC OBJECTS THAT FORM A RING AROUND THE CONDUCTOR, SUCH AS METALLIC CONDUITS, METAL SUPPORT CLIPS OR SLEEVES THROUGH WALLS OR FLOORS, WHEN IT IS REQUIRED TO BE HOUSED IN CONDUIT TO MEET CODE REQUIREMENTS OR LOCAL CONDITIONS. NON-METALLIC MATERIAL SUCH AS PVC PLASTIC CONDUIT SHALL BE USED. WHERE USE OF METAL CONDUIT IS UNAVOIDABLE (E.G., NONMETALLIC CONDUIT PROHIBITED BY LOCAL CODE) THE GROUND CONDUCTOR SHALL BE BONDED TO EACH END OF THE METAL CONDUIT.
- ALL GROUNDS THAT TRANSITION FROM BELOW GRADE TO ABOVE GRADE MUST BE #2 TINNED SOLID IN 3/4" LIQUID TIGHT CONDUIT FROM 24" BELOW GRADE TO WITHIN 3" TO 6" OF CAD-WELD TERMINATION POINT. THE EXPOSED END OF THE LIQUID TIGHT CONDUIT MUST BE SEALED WITH SILICONE CAULK. (ADD TRANSITIONING GROUND STANDARD DETAIL AS WELL).

SYMBOLS:

-  SOLID GROUND BUS BAR
-  SOLID NEUTRAL BUS BAR
-  SUPPLEMENTAL GROUND CONDUCTOR
-  2-POLE THERMAL-MAGNETIC CIRCUIT BREAKER
-  SINGLE-POLE THERMAL-MAGNETIC CIRCUIT BREAKER
-  CHEMICAL GROUND ROD
-  TEST WELL
-  DISCONNECT SWITCH
-  METER
-  EXOTHERMIC WELD (CADWELD) (UNLESS OTHERWISE NOTED)
-  MECHANICAL CONNECTION
-  GROUNDING WIRE

NEC INSULATOR COLOR CODE

DESCRIPTION	PHASE/CODE LETTER	WIRE COLOR
240/120 1Ø	LEG 1	BLACK
	LEG 2	RED
AC NEUTRAL	N	WHITE
GROUND (EGC)	G	GREEN
VDC POS	+	*RED-POLARITY MARK AT TERMINATION
VDC NEG	-	*BLACK-POLARITY MARK AT TERMINATION
240V OR 208V, 3Ø	PHASE A	BLACK
	PHASE B	RED(ORG. IF HI LEG)
	PHASE C	BLUE
480V, 3Ø	PHASE A	BROWN
	PHASE B	ORANGE OR PURPLE
	PHASE C	YELLOW

* SEE NEC 210.5(C)(1) AND (2)



AT&T SITE NUMBER:
GRANMI5943

750 PARK ST.
SAUGATUCK, MI 49453

EXISTING 90'-0" SELF
SUPPORT TOWER WITH
RADOME

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
A	10/21/2022	CRM	90% CDs FOR REVIEW	ES
B	10/26/2022	CRM	REV. PER COMMENTS	ES
C	12/15/2022	CRM	REV. PER COMMENTS	ES
D	01/06/2023	CRM	REV. PER COMMENTS	ES
E	01/10/2023	CRM	REV. PER COMMENTS	ES
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J	07/05/2023	CRM	REV. PER COMMENTS	ES
K	08/23/2023	CRM	REV. PER COMMENTS	ES
L	09/08/2023	CRM	FOR ZONING	ES



SHEET NUMBER: **T-4** REVISION: **L**

*NOTE: THIS SITE HAS VERY LIMITED VEHICULAR ACCESS. HELICOPTER INSTALLATION MAY BE REQUIRED



16025 NORTHLAND DRIVE
SOUTHFIELD, MI 48075



520 South Main Street
Akron, OH 44311
330.572.2100 Fax 330.572.2102



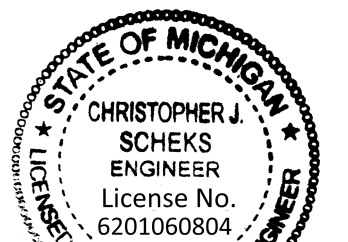
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750 PARK ST.
SAUGATUCK, MI 49453

EXISTING 90'-0" SELF
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09/08/2023
CIVIL

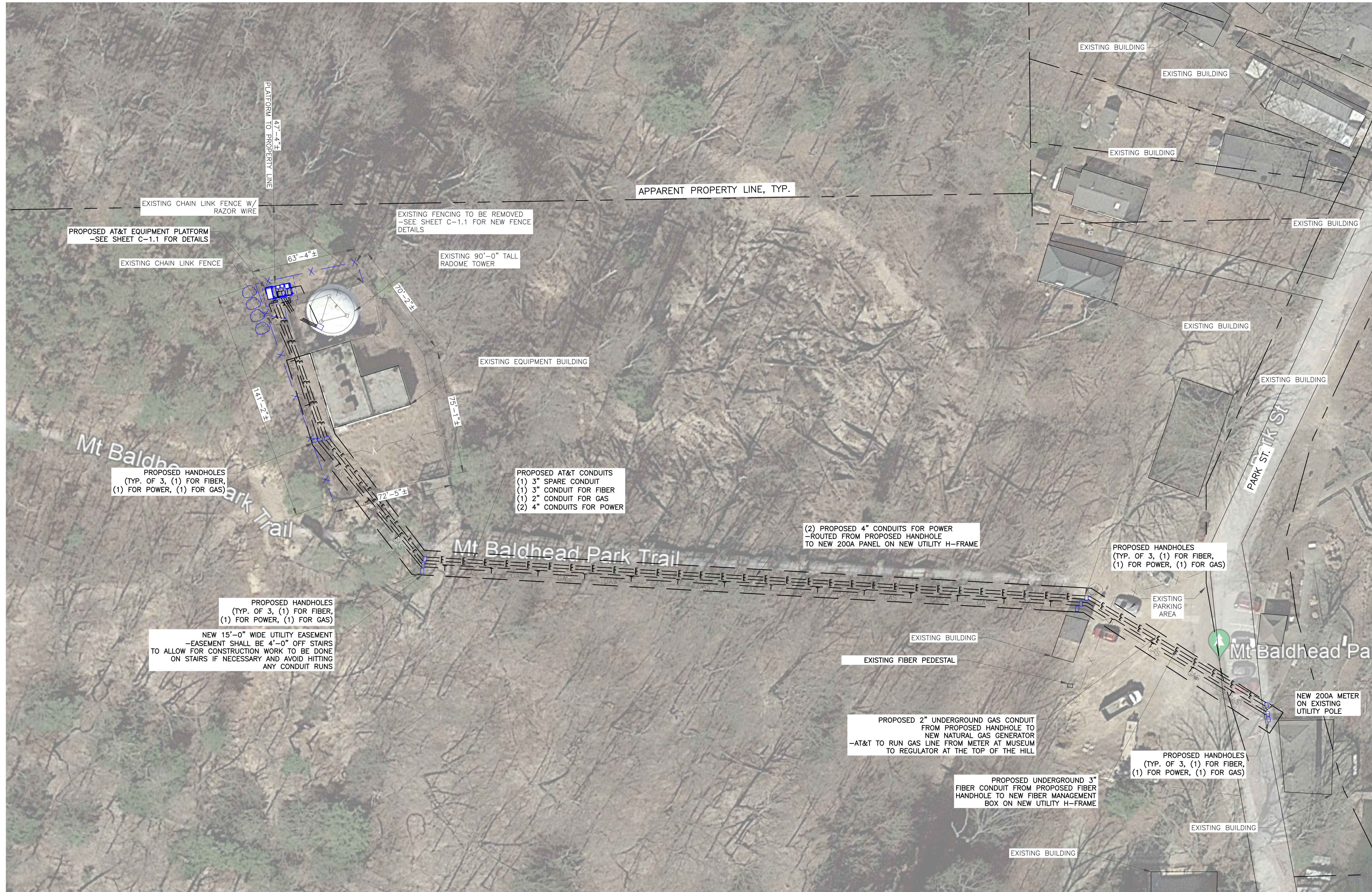
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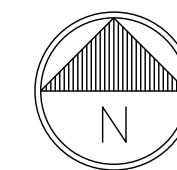
C-1

REVISION:

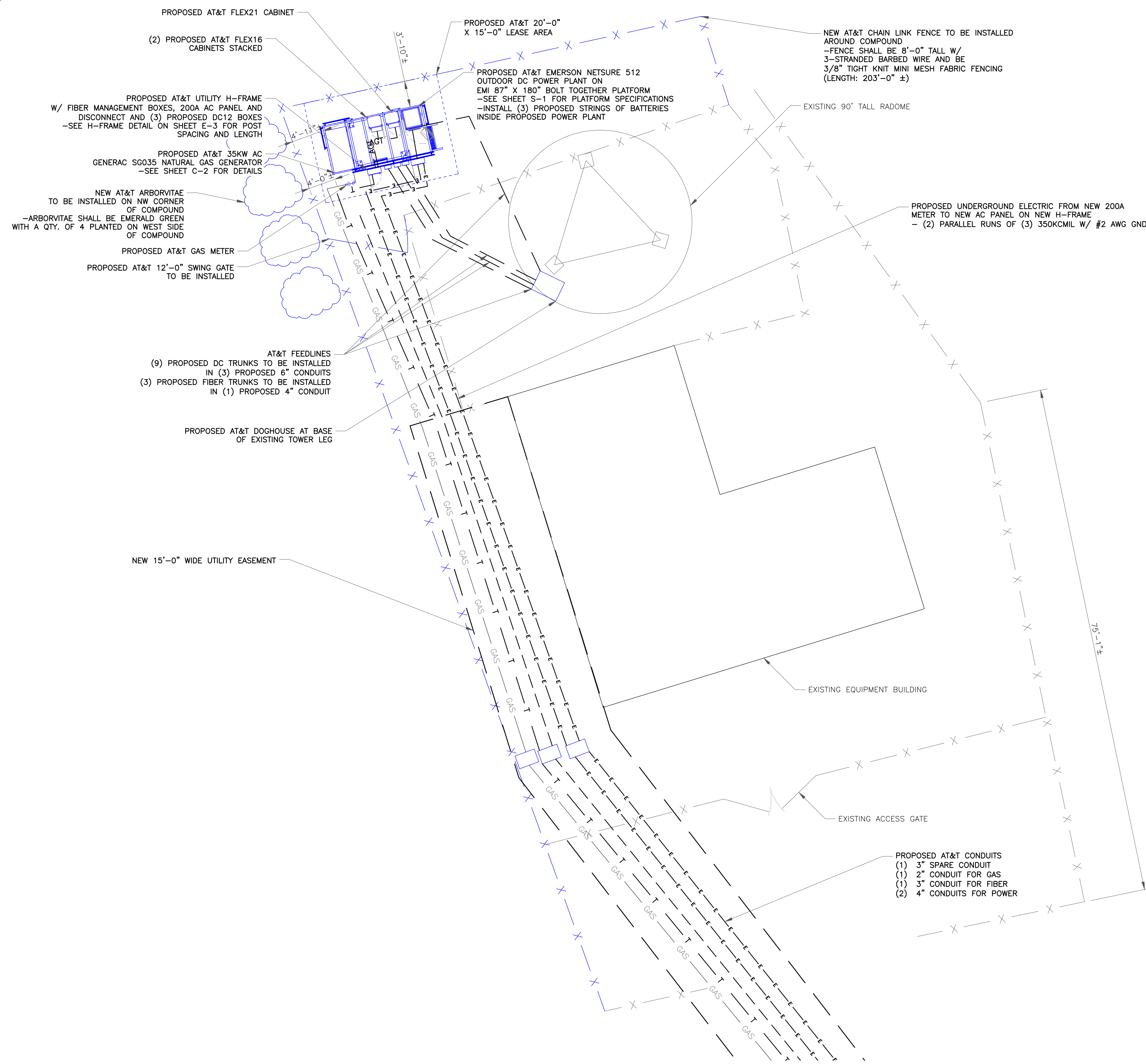
L



1 SITE LAYOUT
SCALE: 1"=30'-0" (FULL SIZE)
1"=60'-0" (11x17)



*NOTE: THIS SITE HAS VERY LIMITED VEHICULAR ACCESS. HELICOPTER INSTALLATION MAY BE REQUIRED



AT&T SITE NUMBER:
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750 PARK ST.
SAUGATUCK, MI 49453

EXISTING 90'-0" SELF
SUPPORT TOWER WITH
RADOME

ISSUED FOR:

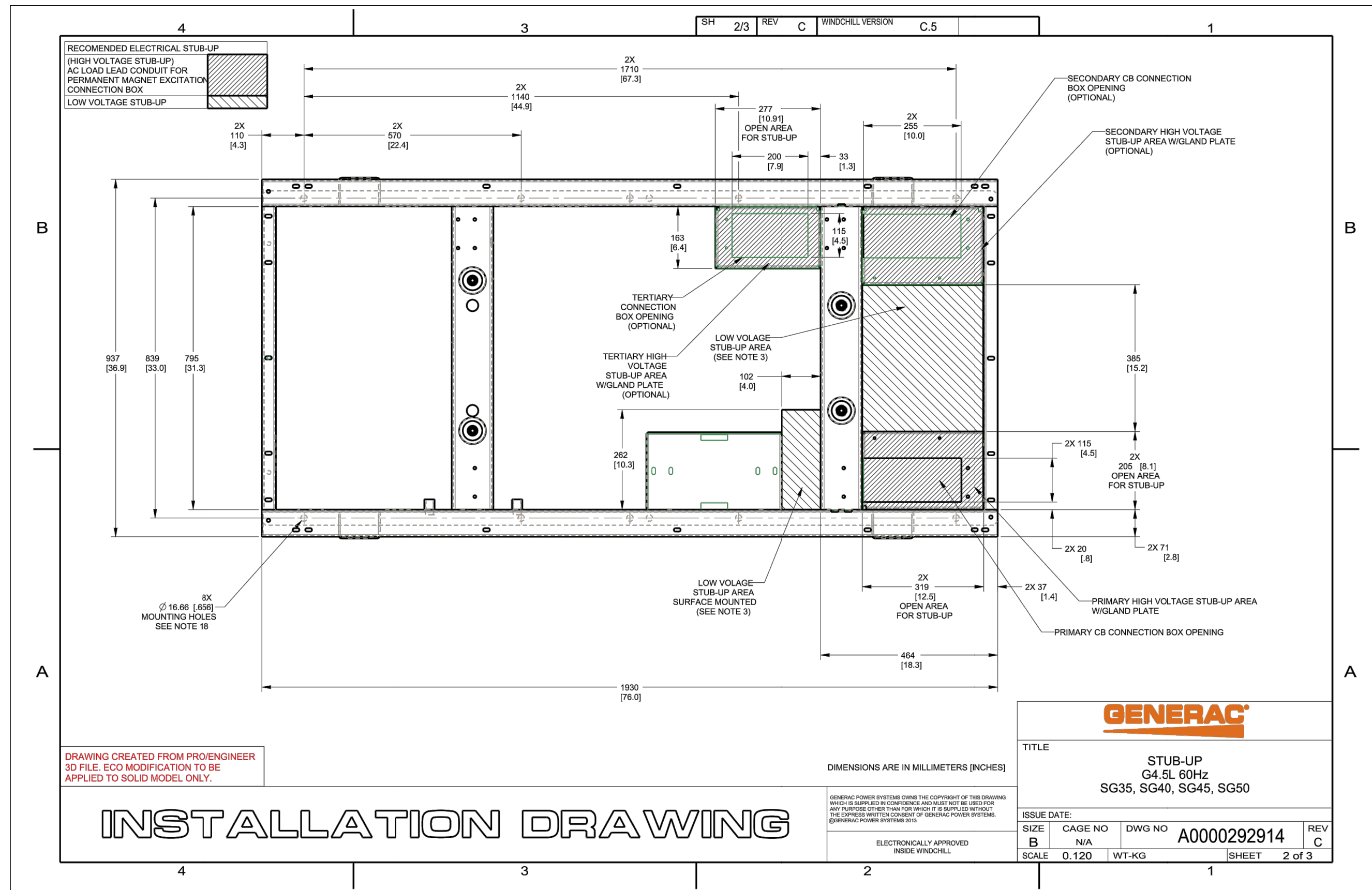
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STATE OF MICHIGAN
CHRISTOPHER J. SCHEKS
ENGINEER
License No. 6201060804
09/08/2023
CIVIL

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SHEET NUMBER: **C-1.1** REVISION: **L**

1 COMPOUND LAYOUT
SCALE: 1/8"=1'-0" (FULL SIZE)
1/16"=1'-0" (11x17)



SG035 | 4.5L | 35 kW
 INDUSTRIAL SPARK-IGNITED GENERATOR SET
 EPA Certified Stationary



APPLICATION AND ENGINEERING DATA

DEMAND RESPONSE READY

ENGINE SPECIFICATIONS

General	
Make	Generac
Cylinder #	4
Type	In-Line
Displacement - in ³ (L)	275.0 (4.5)
Bore - in (mm)	4.5 (114.3)
Stroke - in (mm)	4.25 (107.95)
Compression Ratio	9.94:1
Intake Air Method	Naturally Aspirated
Number of Main Bearings	5
Connecting Rods	Forged Steel, Fractured Split, Bushingless
Cylinder Head	Cast Iron
Cylinder Liners	Cast Iron
Ignition	Coil Near Plug Solid State Inductive
Piston Type	Cast Aluminum Flat Top
Crankshaft Type	Forged Steel
Lifter Type	Hydraulic
Intake Valve Material	Stainless Steel
Exhaust Valve Material	Stainless Steel
Hardened Valve Seats	High Steel Iron Alloy

Lubrication System	
Oil Pump Type	Gear Driving
Oil Filter Type	Full-Flow Spin-On Cartridge
Crankcase Capacity - qt (L)	21 (20)
Cooling System	
Cooling System Type	Pressurized Closed
Fan Type	Pusher
Fan Speed - RPM	2,100
Fan Diameter - in (mm)	20 (508)
Fuel System	
Fuel Type	Natural Gas, Propane
Fuel Injection	Electronic
Fuel Shut Off	Generac
NG Operating Fuel Pressure - in H ₂ O (kPa)	5 - 14 (1.2 - 3.5)
LP Operating Fuel Pressure - in H ₂ O (kPa)	7 - 14 (1.7 - 3.5)
Engine Electrical System	
System Voltage	12 VDC
Battery Charger Alternator	35 A
Battery Size	See Battery Index 0161970SBY
Battery Voltage	12 VDC
Ground Polarity	Negative

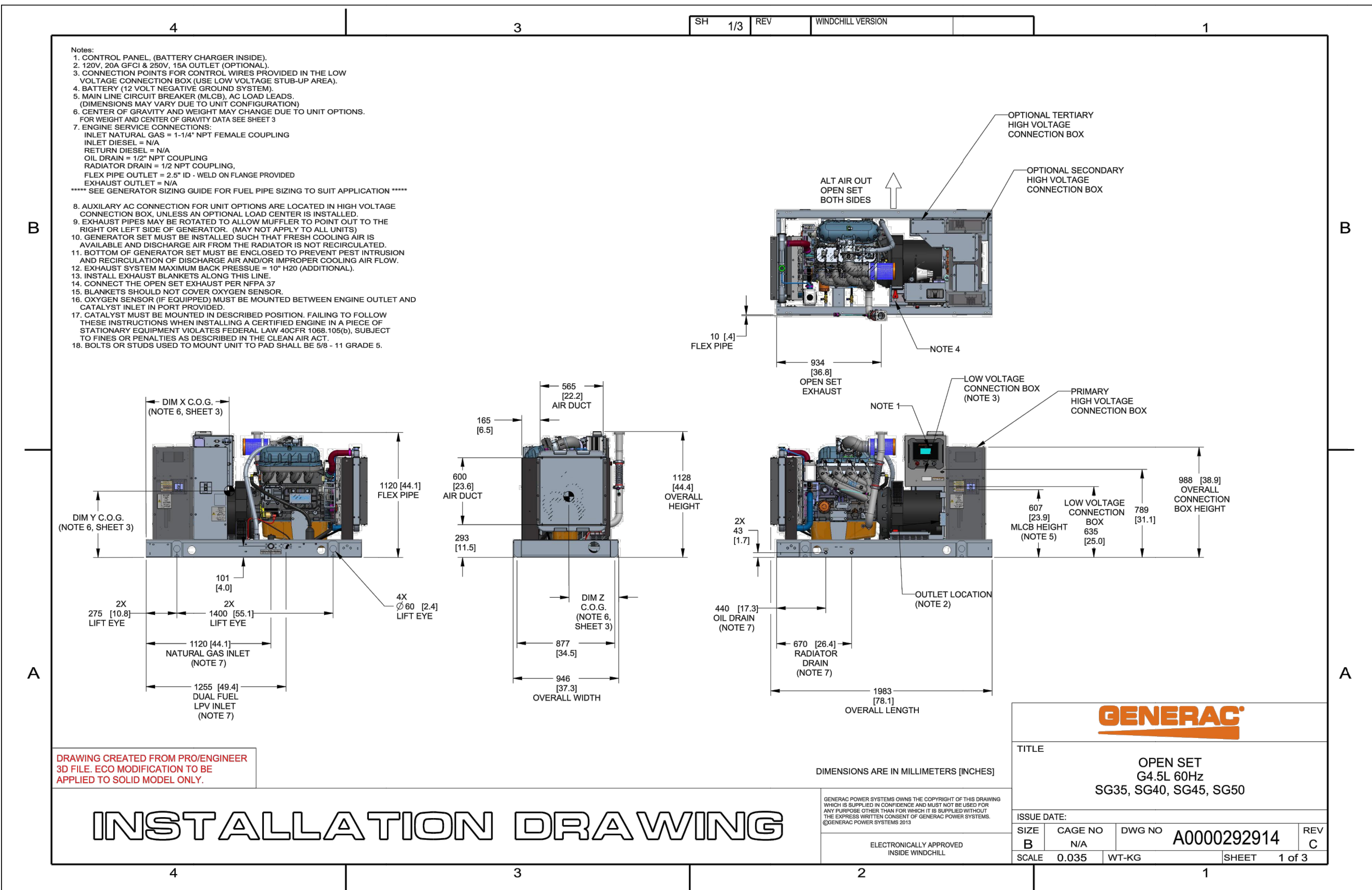
Engine Governing

Governor	Electronic
Frequency Regulation (Steady State)	±0.25%

ALTERNATOR SPECIFICATIONS

Standard Model	K0035124Y21
Poles	4
Field Type	Revolving
Insulation Class - Rotor	H
Insulation Class - Stator	H
Total Harmonic Distortion	<5% (3-Phase Only)
Telephone Interference Factor (TIF)	<50

Standard Excitation	Synchronous Brushless
Bearings	Sealed Ball
Coupling	Direct via Flexible Disc
Prototype Short Circuit Test	Yes
Voltage Regulator Type	Full Digital
Number of Sensed Phases	All
Regulation Accuracy (Steady State)	±0.25%



THESE DETAILS HAVE NOT BEEN REVIEWED BY THE STAMPING PARTY. THEREFORE, THE STAMPING PARTY MAKES NO REPRESENTATION(S) WITH RESPECT TO ITS CONTENTS, AND SHALL NOT BE LIABLE FOR SUCH. ANY RELIANCE ON THIS STAMP SHALL BE AT THE RELYING PARTY(IES)'S OWN RISK AND HEREBY WAIVES ANY AND ALL CLAIM(S) RELATED TO THE EXISTENCE OF THE STAMP OR OTHERWISE



AT&T SITE NUMBER:
GRANMI5943

750 PARK ST.
 SAUGATUCK, MI 49453

EXISTING 90'-0" SELF
 SUPPORT TOWER WITH
 RADOME

ISSUED FOR:

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SHEET NUMBER: **C-2** REVISION: **L**

1 GENERAC SG035 4.5L SPECIFICATIONS
 SCALE:

SPEC SHEET

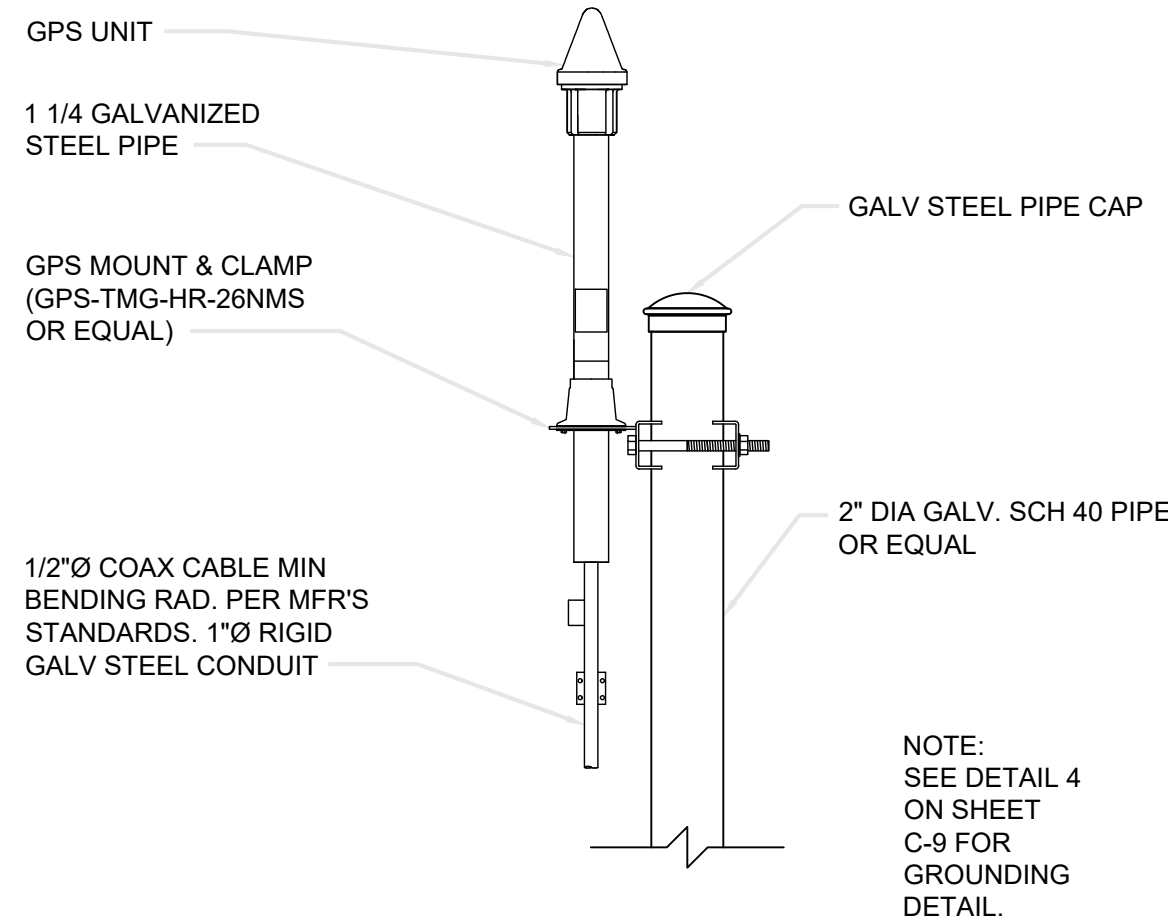
4 of 6



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Dimensions and Expansion Options		Thermal Management Systems			
Exterior Dimensions		Rack Units	Air Conditioner	Heat Exchanger	
No plinth	25" W x 20" D x 30" H 635mm x 508mm x 762mm	16RU	2K BTU/hr 585W with 500W heater	39 W/C	70 W/C
4" plinth	25" W x 20" D x 34" H 635mm x 508mm x 864mm			741W	1330W
14" plinth	25" W x 20" D x 44" H 635mm x 508mm x 1118mm			130 W/C	2470W
13" Battery Base	25" W x 20" D x 43" H 635mm x 508mm x 1092mm				

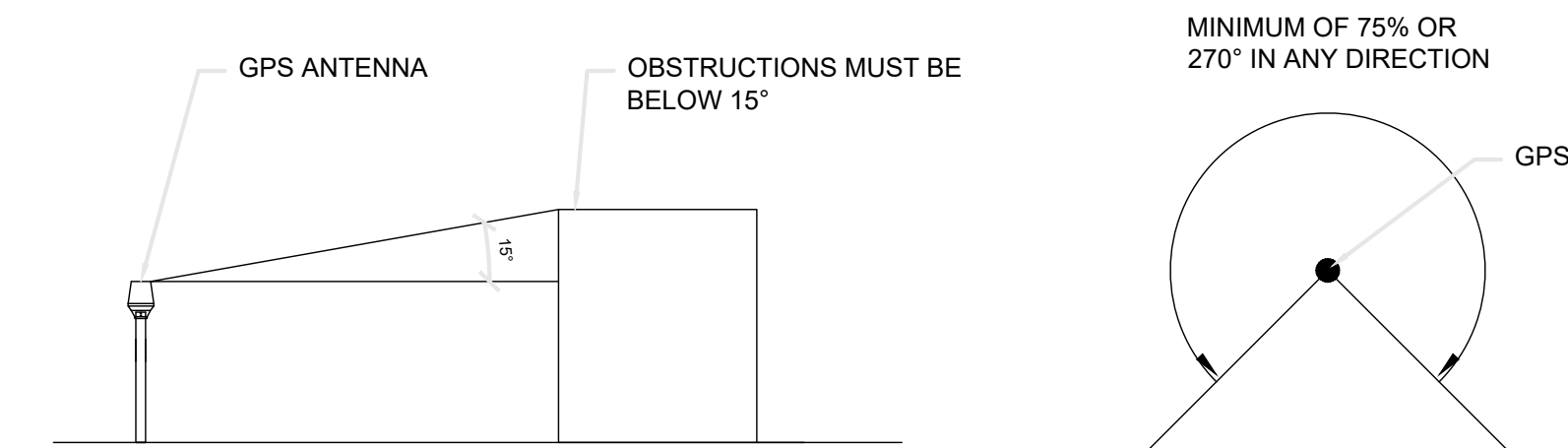
1 PURCELL FLX16 CABINET
SCALE:



2 LTE GPS ANTENNA DETAIL
SCALE:

NOTES

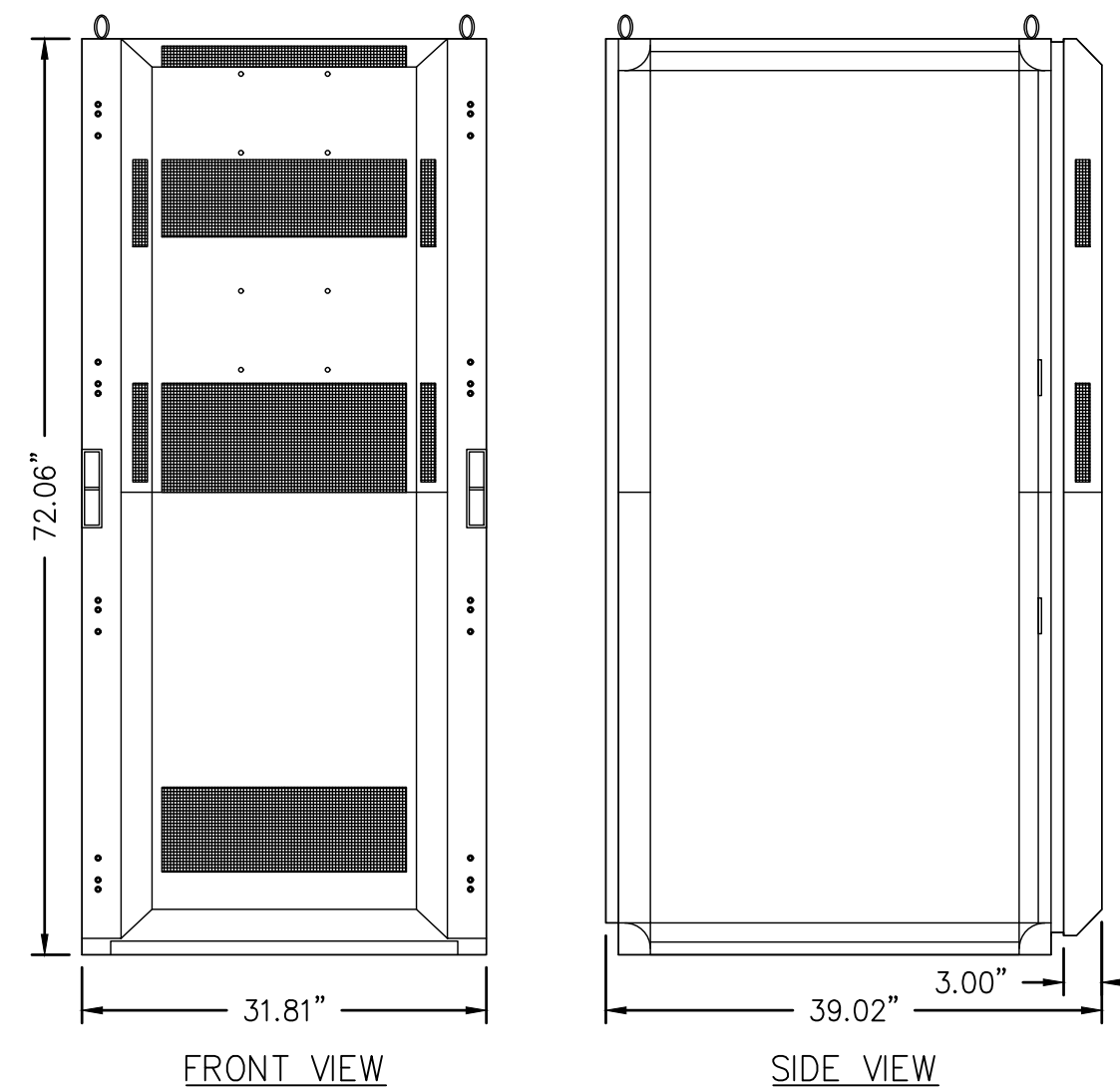
- IT IS CRITICAL THAT THE GPS ANTENNA IS MOUNTED SUCH THAT IT IS WITHIN 2 DEGREES OF VERTICAL AND THE BASE OF THE ANTENNA IS WITHIN 2 DEGREES OF LEVEL.
- DO NOT SWEEP TEST GPS ANTENNA.
- PLACE PROPOSED GPS ANTENNA A MIN. OF 10' (3 METER) HORIZONTALLY FROM ALL EXISTING TRANSMITTING ANTENNAS.
- THE GPS ANTENNA MOUNT IS DESIGNED TO FASTEN TO A STANDARD 3/4" DIAMETER, SCHEDULE 40, GALVANIZED STEEL OR STAINLESS STEEL PIPE. THE PIPE MUST NOT BE THREADED AT THE ANTENNA MOUNT END. THE PIPE SHALL BE CUT TO THE REQUIRED LENGTH (MINIMUM OF 18") USING A HAND OR ROTARY PIPE CUTTER TO ASSURE A SMOOTH AND PERPENDICULAR CUT. A HACK SAW SHALL NOT BE USED. THE CUT PIPE END SHALL BE DEBURRED AND SMOOTH EDGES IN ORDER TO SEAL AGAINST THE NEOPRENE GASKET ATTACHED TO THE ANTENNA MOUNT.



3 GPS SPECIFICATIONS
SCALE:

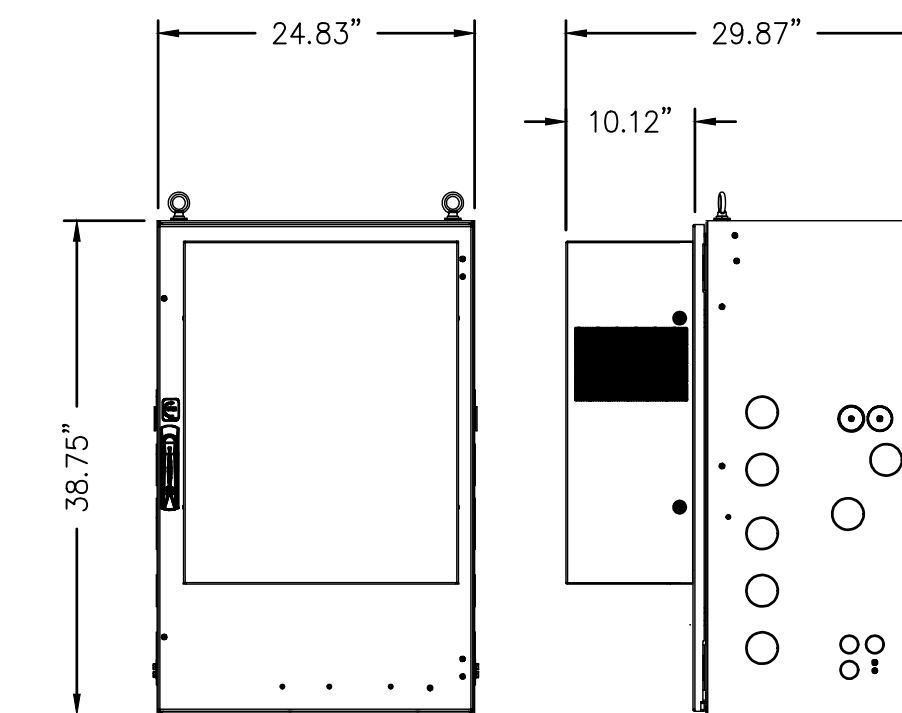
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WEIGHT
314KG (690LB) (NO BATTERIES OR RECTIFIERS)
1040KG (2300LB) WITH FULL COMPLEMENT OF GNB BATTERIES
820KG (1800LB) WITH FULL COMPLEMENT OF SAFT BATTERIES

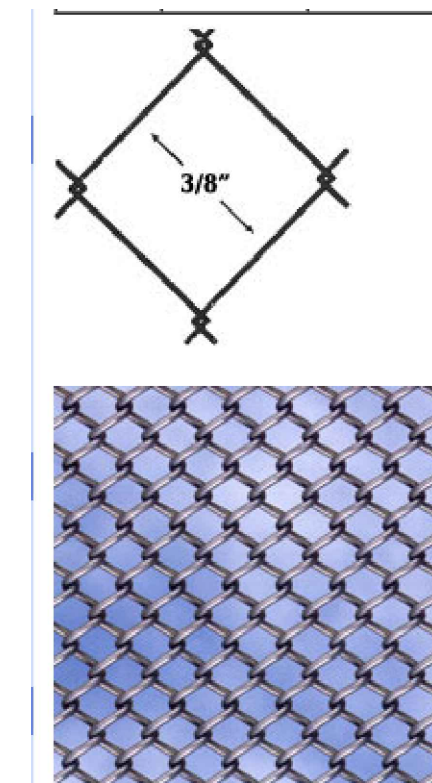
6 EMERSON NETSURE 512 DC POWER PLANT
SCALE:



FRONT VIEW SIDE VIEW

WEIGHT
63.50KG (140LB) - EMPTY
136KG (300LB) - FULLY LOADED

6 PURCELL FLX21 CABINET
SCALE:



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Height	Mesh	Type	Roll Size	Weight/Foot	Price
24"	3/8" x 3/8"	Knuckle Knuckle	25'	-	Call: 800.878.7829
36"	3/8" x 3/8"	Knuckle Knuckle	25'	-	Call: 800.878.7829
48"	3/8" x 3/8"	Knuckle Knuckle	25'	-	Call: 800.878.7829
60"	3/8" x 3/8"	Knuckle Knuckle	25'	-	Call: 800.878.7829
72"	3/8" x 3/8"	Knuckle Knuckle	25'	-	Call: 800.878.7829
84"	3/8" x 3/8"	Knuckle Knuckle	25'	-	Call: 800.878.7829
96"	3/8" x 3/8"	Knuckle Knuckle	25'	-	Call: 800.878.7829
108"	3/8" x 3/8"	Knuckle Knuckle	25'	-	Call: 800.878.7829
120"	3/8" x 3/8"	Knuckle Knuckle	25'	-	Call: 800.878.7829

7 CHAIN LINK MINI MESH FABRIC FENCE
SCALE:



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SHEET NUMBER:

5 C-3

REVISION:

L

NOTE:

HEIGHT OF EXISTING RADOME PER SURVEY COMPLETED BY KEM-TEC DATED 03/02/2023

THE MOUNT ANALYSIS PERFORMED BY GPD GROUP PROFESSIONAL CORPORATION (PROJECT #2023723.16.307394.03 DATED 06/06/2023) FINDS THE MOUNT HAS SUFFICIENT CAPACITY TO CARRY THE PROPOSED LOADING CONFIGURATION ONCE THE RECOMMENDED MODIFICATIONS HAVE BEEN PERFORMED.
 THE TOWER STRUCTURAL ANALYSIS PERFORMED BY GPD GROUP PROFESSIONAL CORPORATION (PROJECT #2023723.16.307394.02 DATED 05/03/2023) FINDS THE TOWER HAS SUFFICIENT CAPACITY TO CARRY THE PROPOSED LOADING CONFIGURATION.



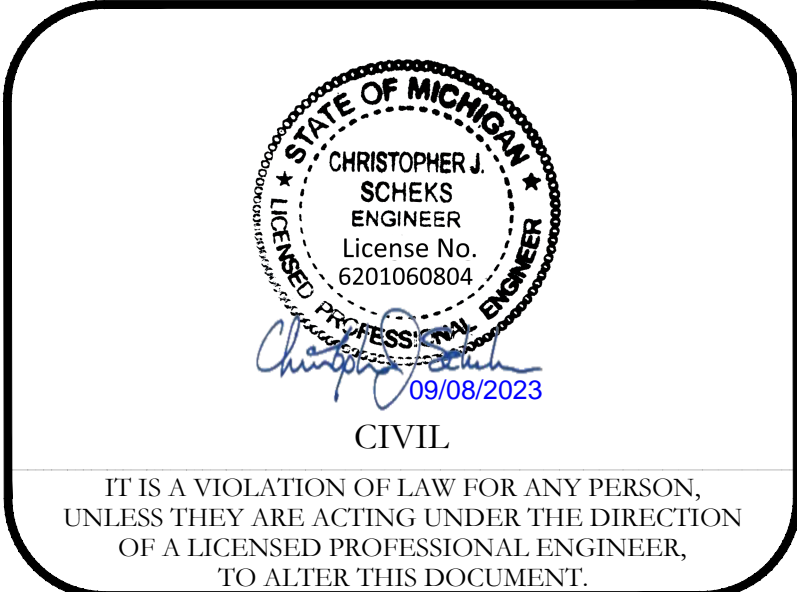
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750 PARK ST.
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EXISTING 90'-0" SELF SUPPORT TOWER WITH RADOME

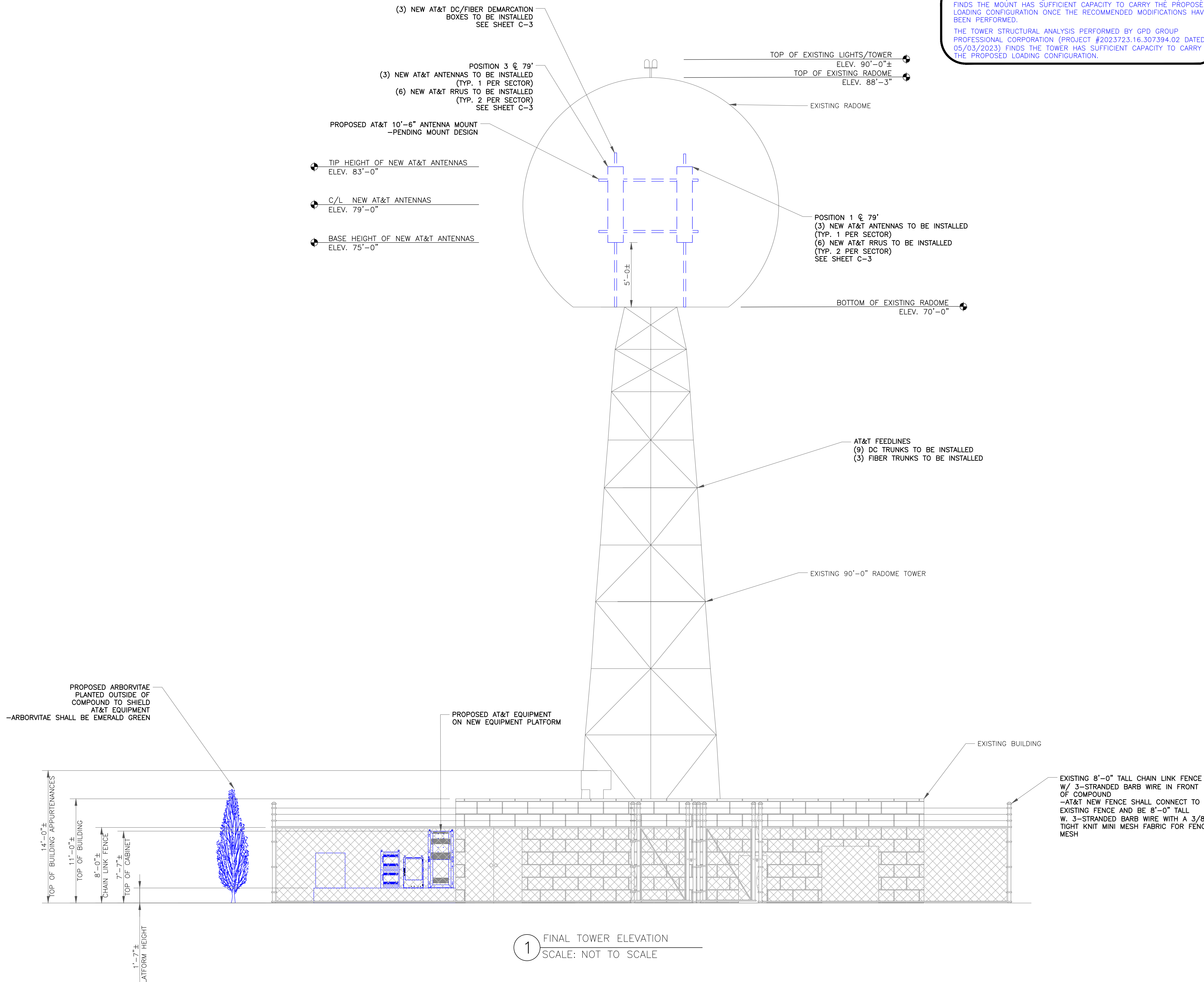
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SHEET NUMBER: **C-4** REVISION: **L**



1 FINAL TOWER ELEVATION
 SCALE: NOT TO SCALE

NEW AT&T RRU TO BE INSTALLED
 NOKIA AIRSCALE RRH 4T4R B5 160W AHCA
 (3 TOTAL, 1 PER SECTOR)
 NOKIA AIRSCALE RRH 4T4R B30 100W AHNA
 (3 TOTAL, 1 PER SECTOR)
 (STACKED ON PROPOSED MOUNT VERTICAL PIPE,
 SEE DETAIL 8 SHEET C-8 FOR DEPICTION)

NEW AT&T RRU TO BE INSTALLED
 NOKIA AIRSCALE TRI RRH 4T4R B12/14/29 370W AHLBBA
 (3 TOTAL, 1 PER SECTOR)
 NOKIA AIRSCALE RRH 4T4R B25/66 480W AHFI
 (3 TOTAL, 1 PER SECTOR)
 (STACKED ON PROPOSED MOUNT VERTICAL PIPE,
 SEE DETAIL 8 SHEET C-8 FOR DEPICTION)

NEW AT&T DC/FIBER DEMARCATION BOX TO
 BE INSTALLED
 RAYCAP DC9-48-60-24-8C-EV
 (3 TOTAL, 1 PER SECTOR)

NEW AT&T PIPE MOUNTS TO BE INSTALLED
 (9 TOTAL, 3 PER SECTOR)
 -PENDING PASSING STRUCTURAL ANALYSIS
 AND MOUNT ANALYSIS

NOTES:

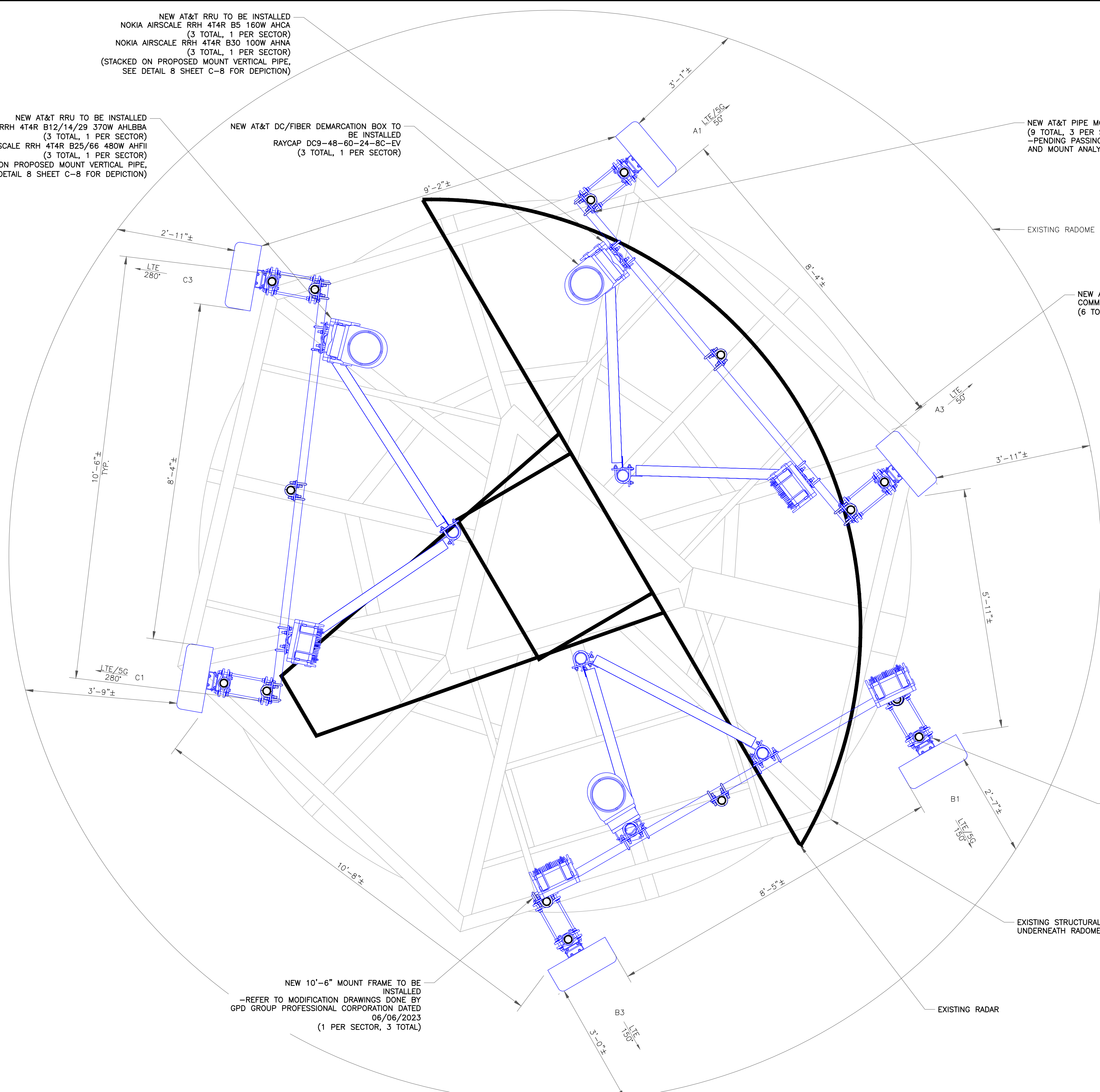
ALL EXISTING EQUIPMENT AND EMPTY PIPES TO
 BE REMOVED FROM RADOME TOWER APART
 FROM THE ACTIVE MW ANTENNA
 -EXISTING EQUIPMENT WAS REMOVED IN THE
 DRAWINGS FOR CLARITY

EXISTING RADAR TO BE REMOVED

NEW AT&T ANTENNA TO BE INSTALLED
 COMMSCOPE NNH4-65C-R6-V3
 (6 TOTAL, 2 PER SECTOR IN POS 1 AND POS 3)

NEW 1'-0" STANDOFF TO BE
 INSTALLED
 -REFER TO MODIFICATION DRAWINGS DONE BY
 GPD GROUP PROFESSIONAL CORPORATION
 DATED 06/06/2023
 (6 TOTAL, 2 PER SECTOR)

NEW 10'-6" MOUNT FRAME TO BE
 INSTALLED
 -REFER TO MODIFICATION DRAWINGS DONE BY
 GPD GROUP PROFESSIONAL CORPORATION DATED
 06/06/2023
 (1 PER SECTOR, 3 TOTAL)



16025 NORTHLAND DRIVE
 SOUTHFIELD, MI 48075

GPD GROUP
 Professional Corporation
 520 South Main Street
 Akron, OH 44311
 330.572.2100 Fax 330.572.2102

AT&T SITE NUMBER:
GRANMI5943

750 PARK ST.
 SAUGATUCK, MI 49453

EXISTING 90'-0" SELF
 SUPPORT TOWER WITH
 RADOME

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
A	10/21/2022	CRM	90% CD's FOR REVIEW	ES
B	10/26/2022	CRM	REV. PER COMMENTS	ES
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J	07/05/2023	CRM	REV. PER COMMENTS	ES
K	08/23/2023	CRM	REV. PER COMMENTS	ES
L	09/08/2023	CRM	FOR ZONING	ES

CIVIL

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SHEET NUMBER: **C-5** REVISION: **L**

1 FINAL ANTENNA LAYOUT
 SCALE: 3/4"=1'-0" (FULL SIZE)
 3/8"=1'-0" (11x17)



AT&T SITE NUMBER:
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750 PARK ST.
SAUGATUCK, MI 49453

EXISTING 90'-0" SELF
SUPPORT TOWER WITH
RADOME

ISSUED FOR:

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09/08/2023
CIVIL

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SHEET NUMBER:

C-6

REVISION:

L

ANTENNA AND COAXIAL
CABLE SCHEDULE

ALPHA

POSITION	TECH.	STATUS	AZIMUTH	ANTENNA TYPE	ANTENNA RAD CENTER	MECHANICAL DOWNTILT	ELECTRICAL DOWNTILT (LOW BAND/HIGH BAND)	MAIN COAX SIZE	MAIN COAX LENGTH	COAX QTY	TMA QTY	DIPLEXER QTY ON TOWER	RAYCAP DEMARC SQUID	DC/ FIBER CABLES	RRUs QTY ON TOWER	DIPLEXERS QTY ON GROUND	RET HOMERUN
A1	5G 850, LTE WCS	NEW	50°	COMMSCOPE NNH4-65C-R6-V3	79'	0°	0°/0°	-	-	-	-	-	(1) DC9-48-60-24-8C-EV	(3) DC (PWRT-604-S) (1) FIBER (24 PAIR)	(1) B5 AHCA (1) B30 AHNA	-	-
A2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A3	LTE 700, 1900, AWS	NEW	50°	COMMSCOPE NNH4-65C-R6-V3	79'	0°	0°/0°/0°	-	-	-	-	-	-	-	(1) B12/14/29 AHLBBA (1) B25/66 AHFII	-	-

BETA

B1	5G 850, LTE WCS	NEW	150°	COMMSCOPE NNH4-65C-R6-V3	79'	0°	0°/0°	-	-	-	-	-	(1) DC9-48-60-24-8C-EV	(3) DC (PWRT-604-S) (1) FIBER (24 PAIR)	(1) B5 AHCA (1) B30 AHNA	-	-
B2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B3	LTE 700, 1900, AWS	NEW	150°	COMMSCOPE NNH4-65C-R6-V3	79'	0°	0°/0°/0°	-	-	-	-	-	-	-	(1) B12/14/29 AHLBBA (1) B25/66 AHFII	-	-

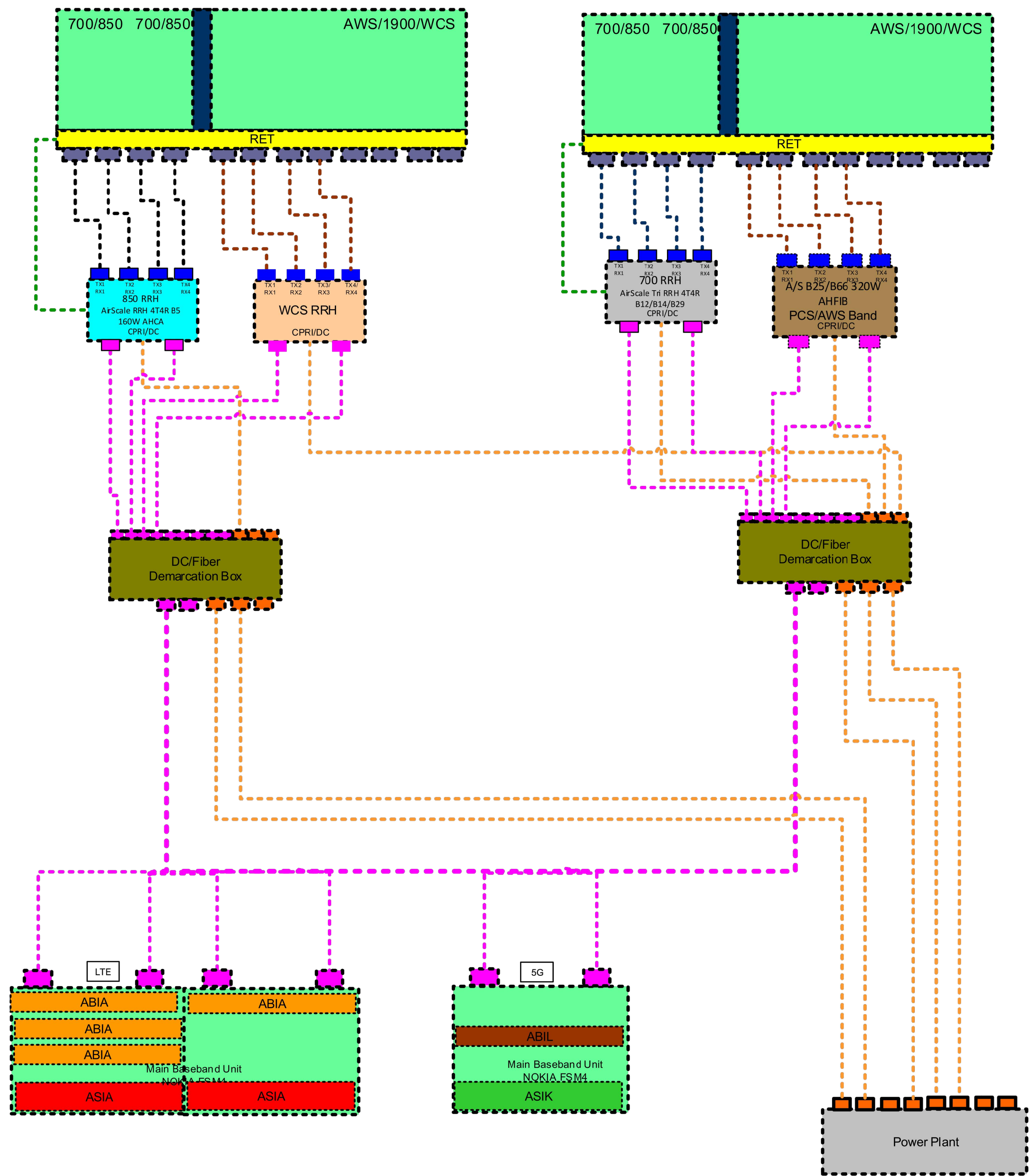
GAMMA

C1	5G 850, LTE WCS	NEW	280°	COMMSCOPE NNH4-65C-R6-V3	79'	0°	0°/0°	-	-	-	-	-	(1) DC9-48-60-24-8C-EV	(3) DC (PWRT-606-S) (1) FIBER (24 PAIR)	(1) B5 AHCA (1) B30 AHNA	-	-
C2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C3	LTE 700, 1900, AWS	NEW	280°	COMMSCOPE NNH4-65C-R6-V3	79'	0°	0°/0°/0°	-	-	-	-	-	-	-	(1) B12/14/29 AHLBBA (1) B25/66 AHFII	-	-

NOTE: RFDS BEING USED
DATED 09/23/2021 V02

1 FINAL ANTENNA AND COAXIAL CABLE SCHEDULE
SCALE: NOT TO SCALE

OML05943_SECTOR_A_AFTER



AT&T SITE NUMBER:
GRANMI5943

750 PARK ST.
 SAUGATUCK, MI 49453

EXISTING 90'-0" SELF
 SUPPORT TOWER WITH
 RADOME

ISSUED FOR:

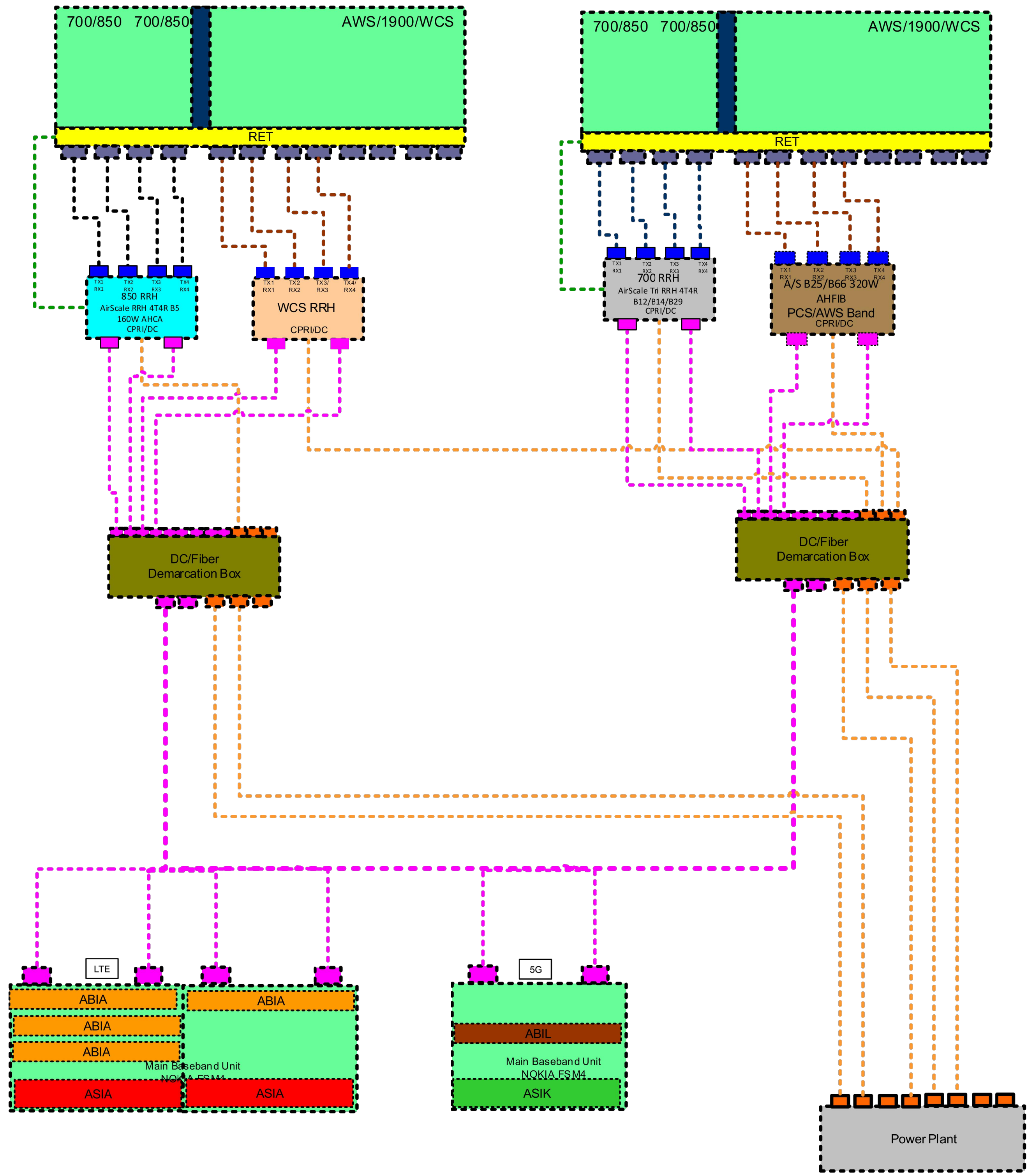
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REFERENCE ONLY

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SHEET NUMBER: **C-7.1** REVISION: **L**

OML05943_SECTOR_B_AFTER



AT&T SITE NUMBER:
GRANMI5943

750 PARK ST.
 SAUGATUCK, MI 49453

EXISTING 90'-0" SELF
 SUPPORT TOWER WITH
 RADOME

ISSUED FOR:

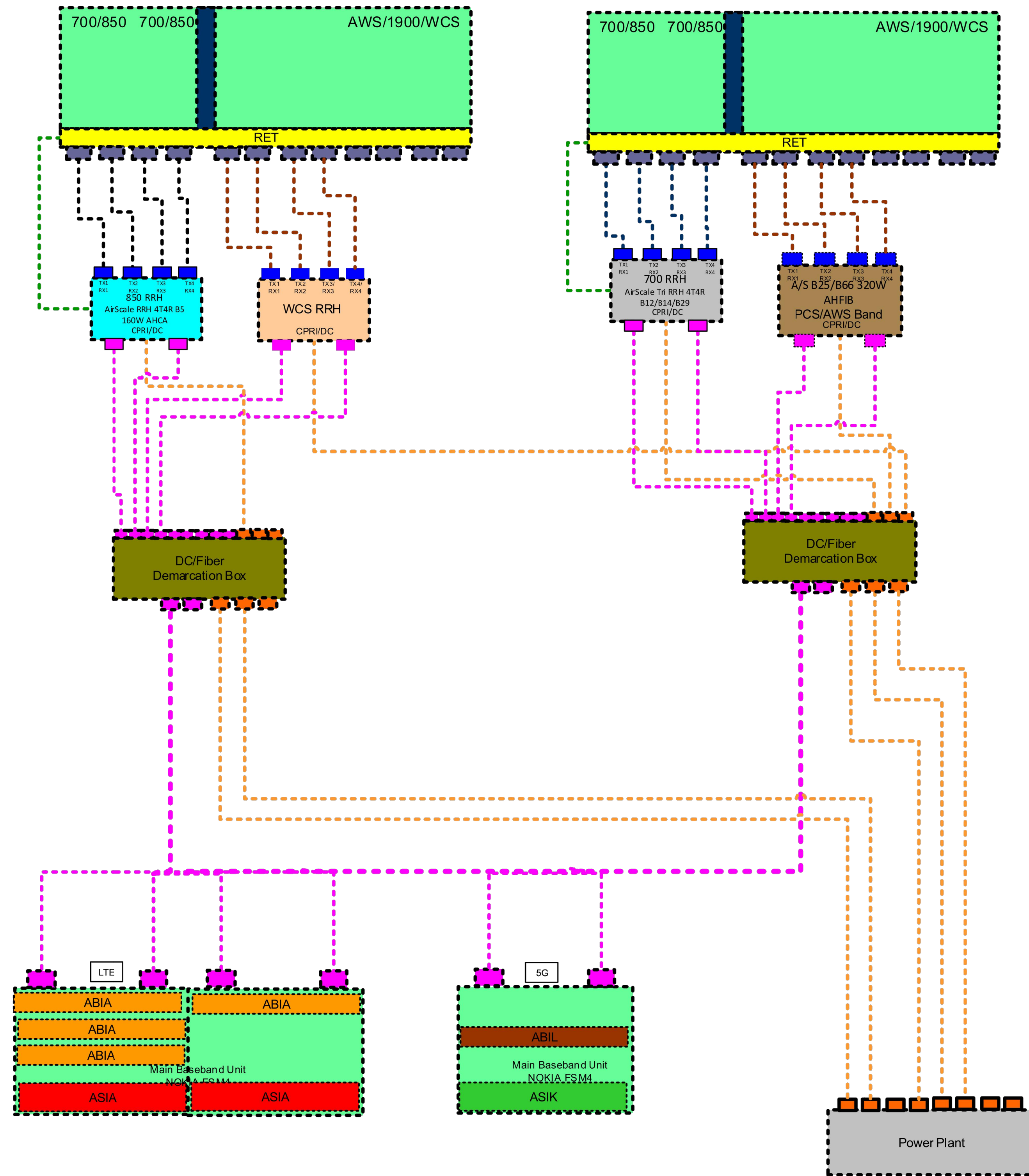
REV	DATE	DRWN	DESCRIPTION	DES./QA
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SHEET NUMBER: **C-7.2** REVISION: **L**

OML05943_SECTOR_C_AFTER



AT&T SITE NUMBER:
GRANMI5943

750 PARK ST.
 SAUGATUCK, MI 49453

EXISTING 90'-0" SELF
 SUPPORT TOWER WITH
 RADOME

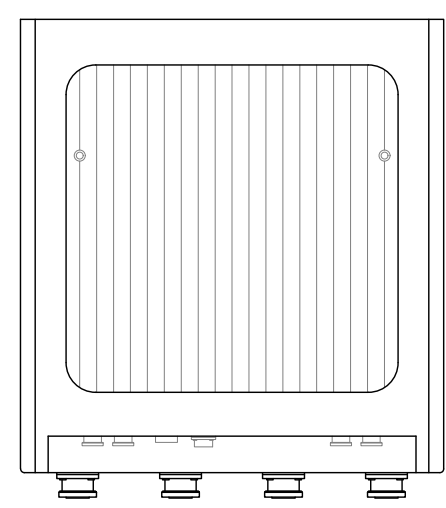
ISSUED FOR:

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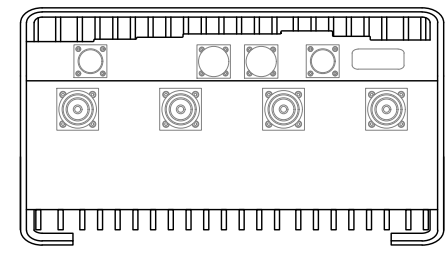
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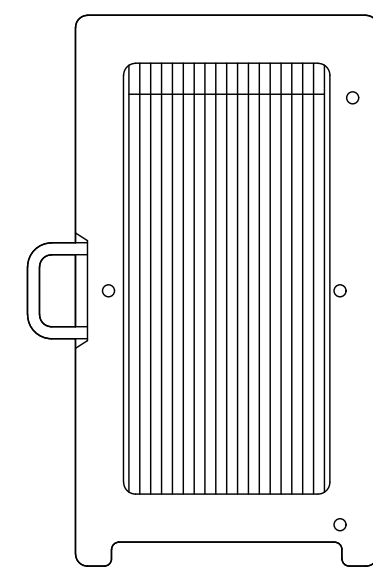
SHEET NUMBER: **C-7.3** REVISION: **L**



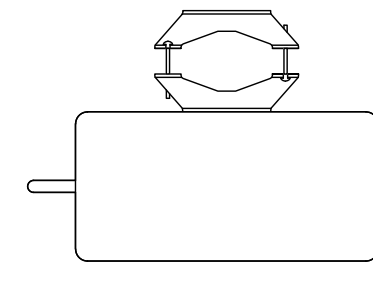
NOKIA – AIRSCALE RRH 4T4R B30 100W AHNA
 WEIGHT (FULLY EQUIPPED): 39.02 LBS
 SIZE (HxWxD): 13.3x12.1x5.5 IN.



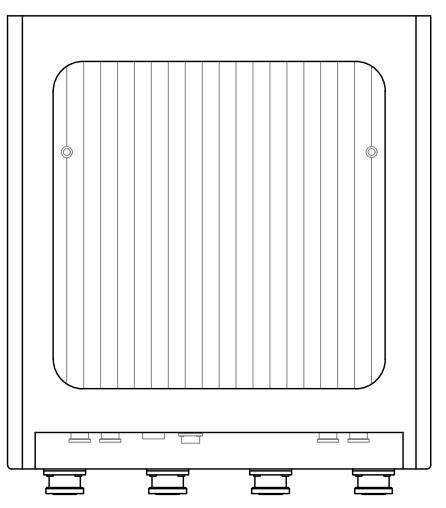
1 NOKIA AHNA
 SCALE: NOT TO SCALE



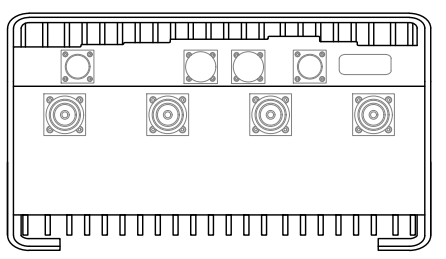
NOKIA AIRSCALE DUAL RRH 4T4R B25/66 480W AHFII
 WEIGHT (FULLY EQUIPPED): 70.55 LBS
 SIZE (HxWxD): 25.20x13.46x4.57 IN.
 CONNECTOR TYPE: 4.3-10 FEMALE (4 TOTAL PORTS)



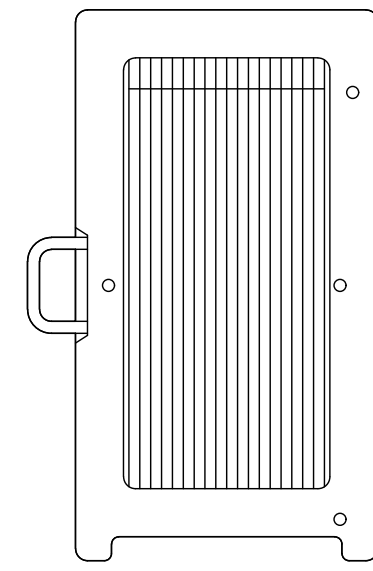
3 NOKIA AHFII
 SCALE: NOT TO SCALE



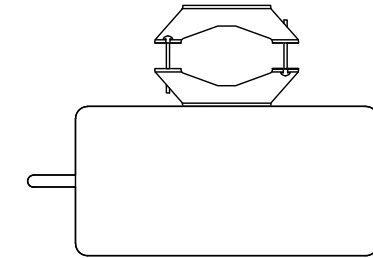
NOKIA – AIRSCALE RRH 4T4R B5 160W AHCA
 WEIGHT (FULLY EQUIPPED): 35.27 LBS
 SIZE (HxWxD): 13.3x11.6x6.5 IN.



2 NOKIA AHCA
 SCALE: NOT TO SCALE



NOKIA AIRSCALE TRI RRH 4T4R B12/14/29 370W AHLBBA
 WEIGHT (FULLY EQUIPPED): 88.2 LBS
 SIZE (HxWxD): 28.7x15.4x9.45 IN.
 CONNECTOR TYPE: 4.3-10 FEMALE (4 TOTAL PORTS)



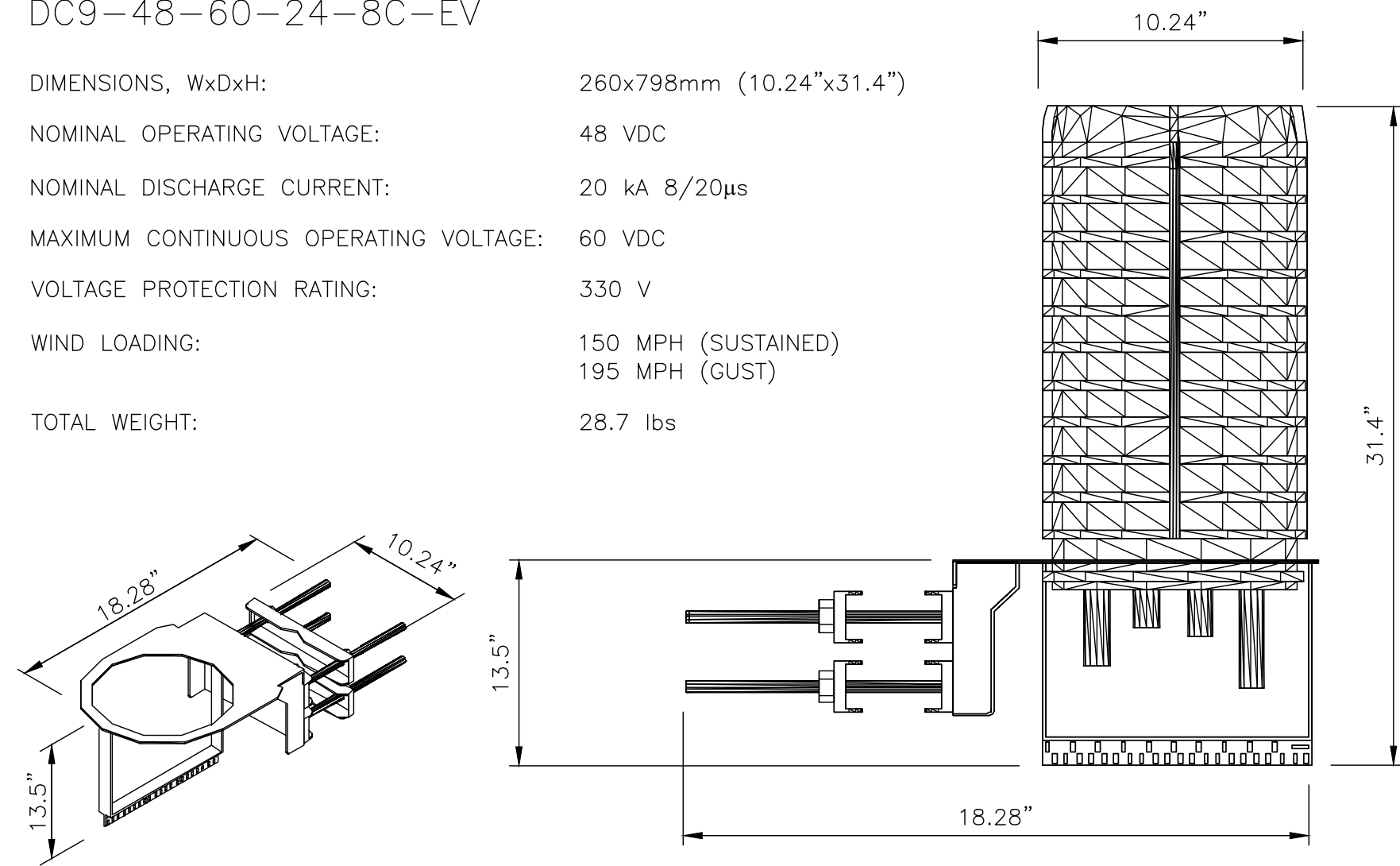
4 NOKIA AHLBBA
 SCALE: NOT TO SCALE

5 DETAIL NOT USED
 SCALE: NOT TO SCALE

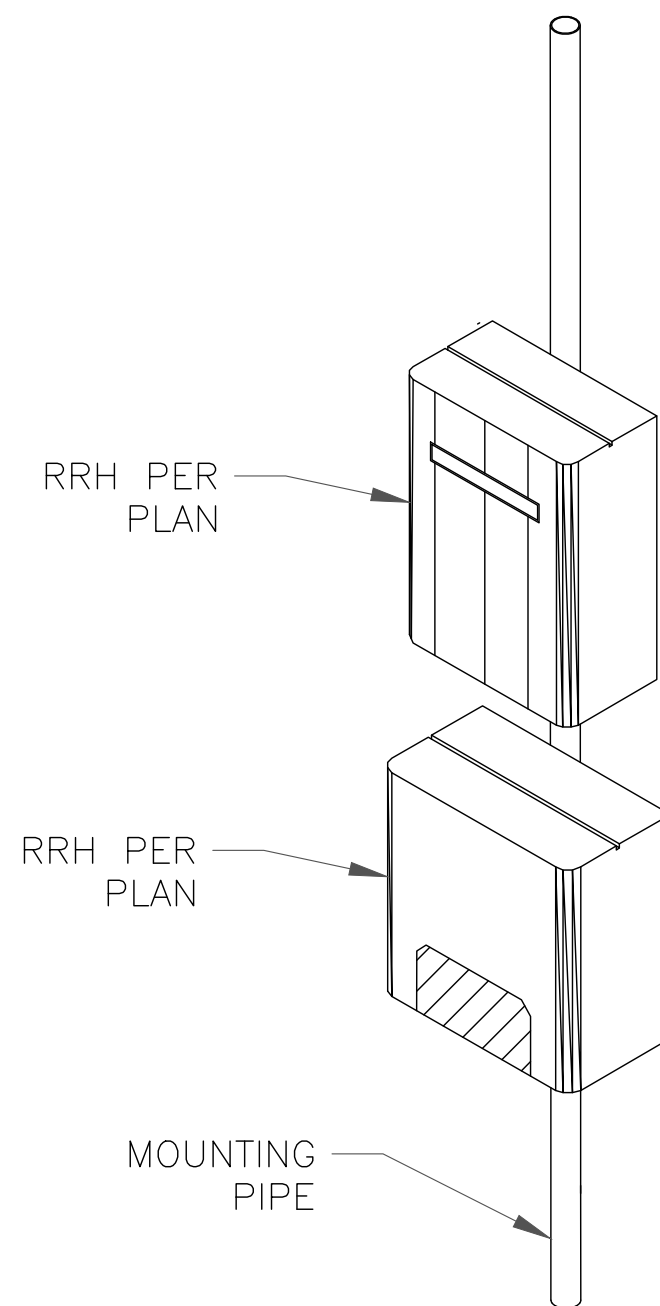
6 DETAIL NOT USED
 SCALE: NOT TO SCALE

RAYCAP
 DC9-48-60-24-8C-EV

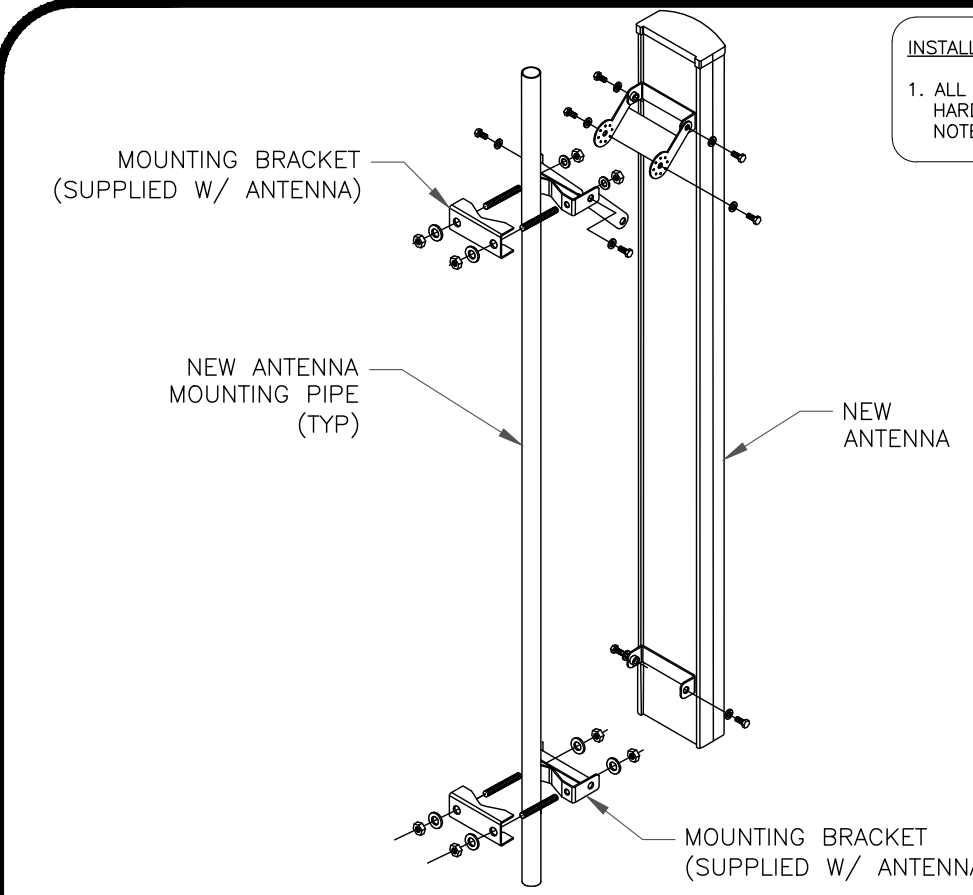
DIMENSIONS, WxDxH:	260x798mm (10.24"x31.4")
NOMINAL OPERATING VOLTAGE:	48 VDC
NOMINAL DISCHARGE CURRENT:	20 kA 8/20μs
MAXIMUM CONTINUOUS OPERATING VOLTAGE:	60 VDC
VOLTAGE PROTECTION RATING:	330 V
WIND LOADING:	150 MPH (SUSTAINED) 195 MPH (GUST)
TOTAL WEIGHT:	28.7 lbs



7 SQUID MOUNTING DETAIL
 SCALE: NOT TO SCALE

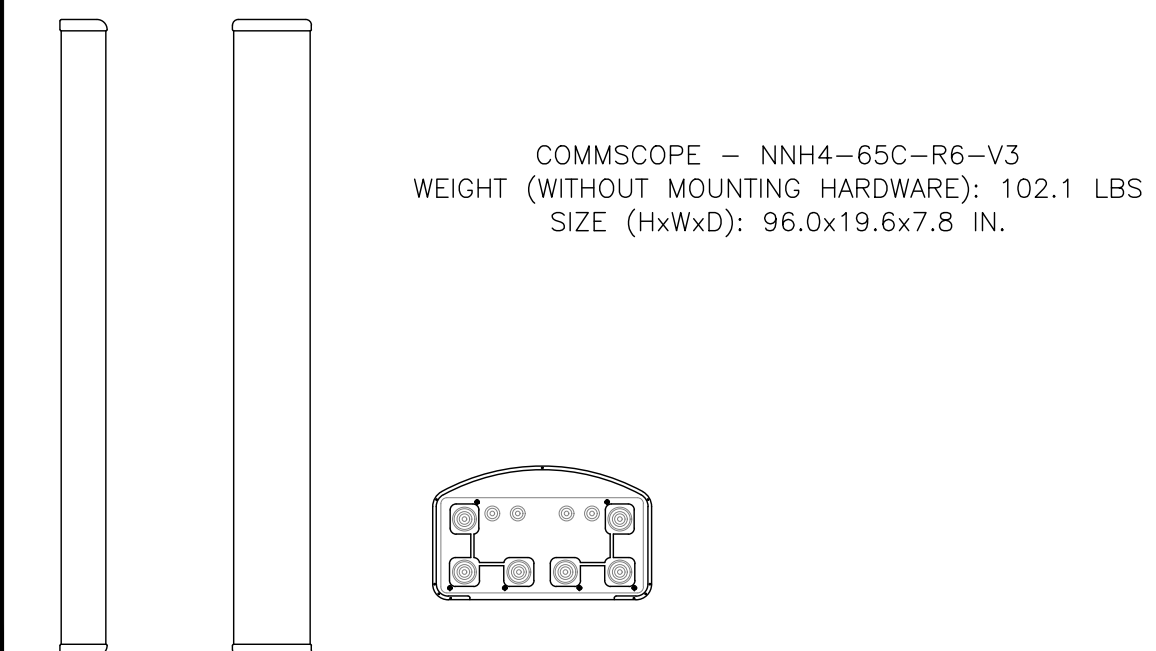


8 STACKED RADIO DETAIL
 SCALE:



INSTALLER NOTE:
 1. ALL PIPES, BRACKETS, AND MISCELLANEOUS
 HARDWARE TO BE GALVANIZED UNLESS
 NOTED OTHERWISE.

9 MOUNTING DETAIL
 SCALE: NOT TO SCALE



10 COMMSCOPE NNH4-65C-R6-V3
 SCALE: NOT TO SCALE



AT&T SITE NUMBER:
GRANMI5943

750 PARK ST.
 SAUGATUCK, MI 49453

EXISTING 90'-0" SELF
 SUPPORT TOWER WITH
 RADOME

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SHEET NUMBER: **C-8** REVISION: **L**

AT&T SITE NUMBER:
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SAUGATUCK, MI 49453

EXISTING 90'-0" SELF
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RADOME

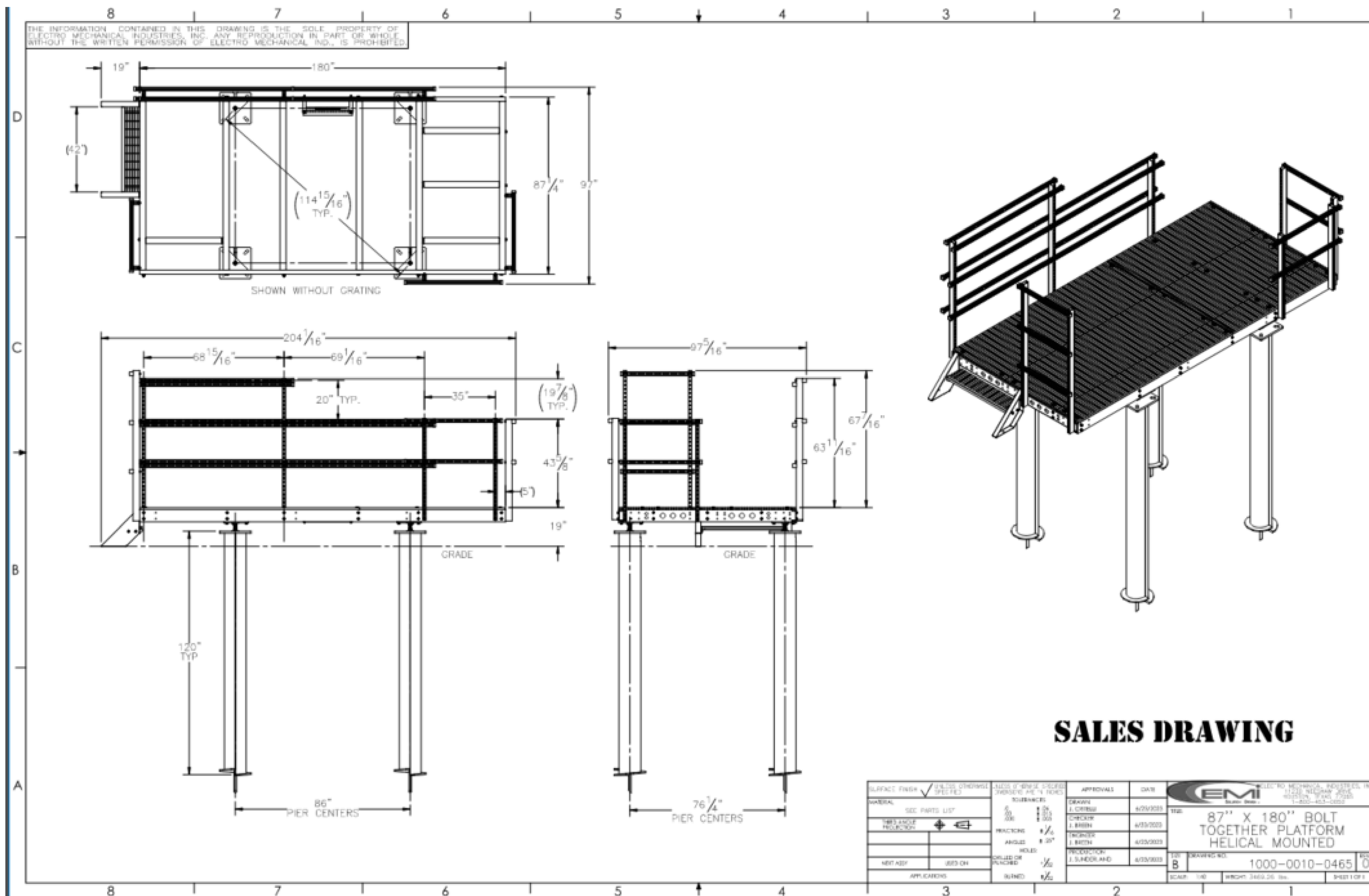
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SHEET NUMBER: **S-1** REVISION: **L**



1 PLATFORM SPECIFICATIONS
SCALE: NO SCALE

1. THE CONDUIT ROUTING IS DIAGRAMMATICALLY SHOWN ON THE PLANS AND ARE ONLY APPROXIMATIONS. THE EXACT LOCATION AND ROUTING SHALL BE FIELD VERIFIED.
2. ALL ELECTRICAL EQUIPMENT AND CONTROLLING DEVICES SHALL BE PROVIDED WITH ENGRAVED LAMICOID NAMEPLATES, INDICATING THE CIRCUITS ORIGINATION AND ALL EQUIPMENT TERMINATIONS.
3. CONTRACTOR SHALL PROVIDE STRAIN-RELIEF AND CABLE SUPPORTS FOR ALL CABLE ASSEMBLIES, COAX CABLES, AND RET CONTROL CABLES. CABLE STRAIN-RELIEFS, CABLE SUPPORTS SHALL BE APPROVED FOR THE PURPOSE. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
4. CONTRACTOR SHALL PROVIDE ALL BREAKERS, CONDUITS, AND CIRCUIT CONDUCTORS, AS REQUIRED FOR A COMPLETED SYSTEM AND SHALL BE IN COMPLIANCE WITH THE MANUFACTURER'S SPECIFICATIONS.
5. WHEN ADDITIONAL +24Vdc TO -48Vdc CONVERTERS ARE REQUIRED FOR LTE EQUIPMENT, ADDITIONAL +24Vdc RECTIFICATION & ADDITIONAL BATTERIES MAY BE REQUIRED TO BE ADDED TO THE EXISTING BATTERY STRING. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL BREAKERS, RECTIFIERS, BATTERIES, CONDUIT, CABLE TRAY, & CONDUCTORS WHICH ARE REQUIRED FOR A COMPLETED, FUNCTIONING ELECTRICAL SYSTEM.
6. ALL CONDUITS SHALL BE INSTALLED IN COMPLIANCE WITH THE CURRENT NATIONAL ELECTRIC CODE (NEC) OR AS REQUIRED BY THE LOCAL JURISDICTION, WHICHEVER IS THE MOST STRINGENT.
7. PROPOSED TELCO WITH 25 PAIR ICKY-PICK CAT 5 CONDUCTOR IN (2) PROPOSED 4" SCH 40 PVC CONDUIT. CONTRACTOR TO COORDINATE WITH LOCAL TELEPHONE COMPANY. EACH 4" TELCO CONDUIT TO HAVE (2) 1-1/4" INTERDUCT CONDUITS FOR FIBER.
8. PROPOSED POWER IN (1) PROPOSED 3" SCH 40 IMC CONDUIT. CONTRACTOR TO COORDINATE W/ LOCAL UTILITY COMPANY.
9. CONTRACTOR SHALL COORDINATE WITH POWER AND TELEPHONE COMPANIES, AND PROVIDE ALL MATERIALS REQUIRED, AND PROVIDE TRENCH, BACKFILL & SITE RESTORATION. DEPTH OF CONDUITS PER N.E.C., LOCAL JURISDICTION AND POWER & TELE COMPANY, WHICH EVER IS MORE STRINGENT.



CONTRACTOR NOTE:
 CONTRACTOR SHALL COORDINATE CONTROL & ALARM CONDUITS, WIRES & TERMINATION REQUIREMENTS FOR DIESEL GENERATOR PER MANUFACTURERS DRAWINGS

1 OVERALL ELECTRICAL SITE PLAN
 SCALE: NO SCALE



AT&T SITE NUMBER:
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750 PARK ST.
 SAUGATUCK, MI 49453

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SHEET NUMBER: **E-1** REVISION: **L**



16025 NORTHLAND DRIVE
SOUTHFIELD, MI 48075



520 South Main Street
Akron, OH 44311
330.572.2100 Fax 330.572.2102



AT&T SITE NUMBER:
GRANMI5943

750 PARK ST.
SAUGATUCK, MI 49453

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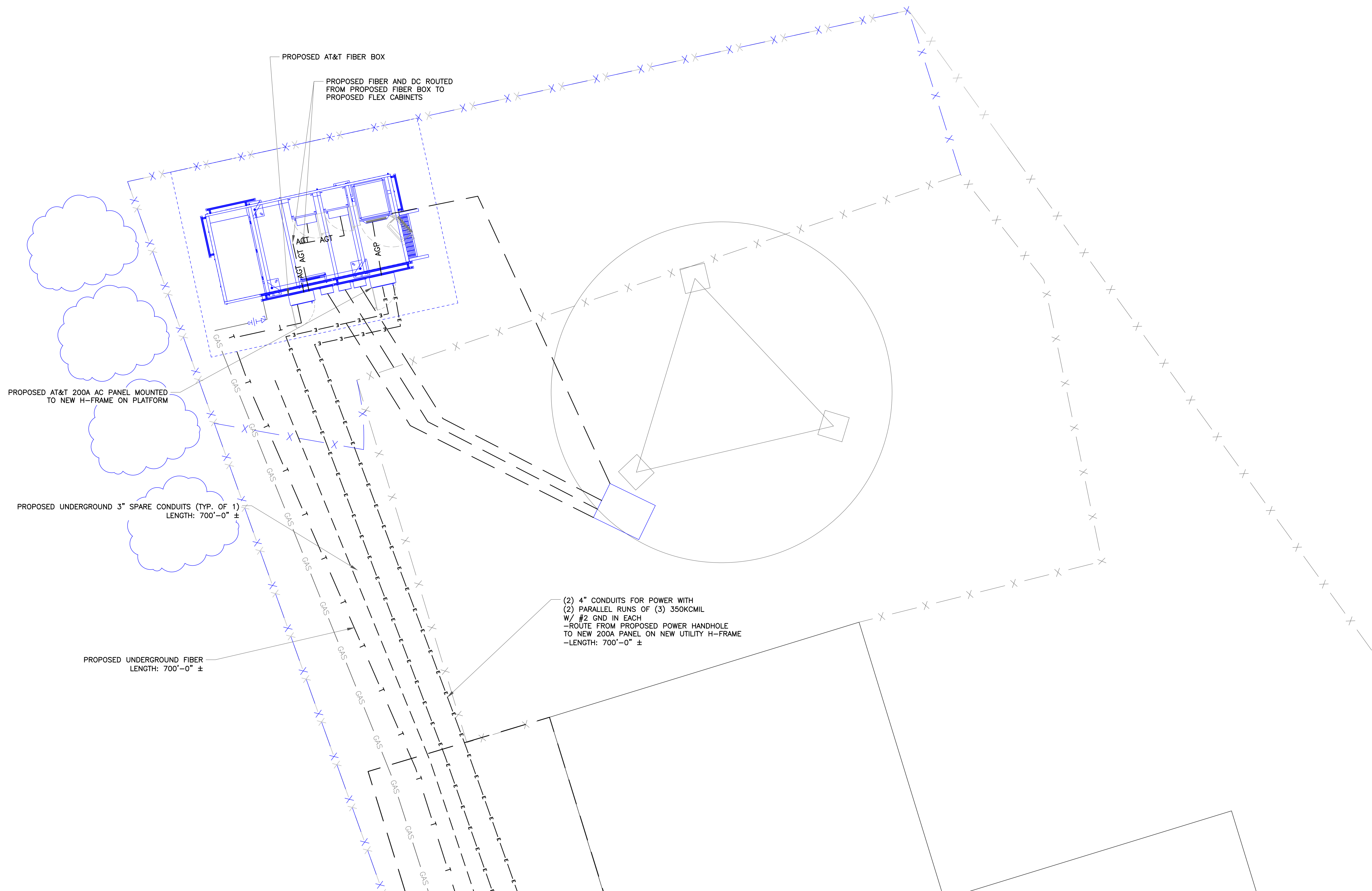
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A	10/21/2022	CRM	90% CDs FOR REVIEW	ES
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K	08/23/2023	CRM	REV. PER COMMENTS	ES
L	09/08/2023	CRM	FOR ZONING	ES

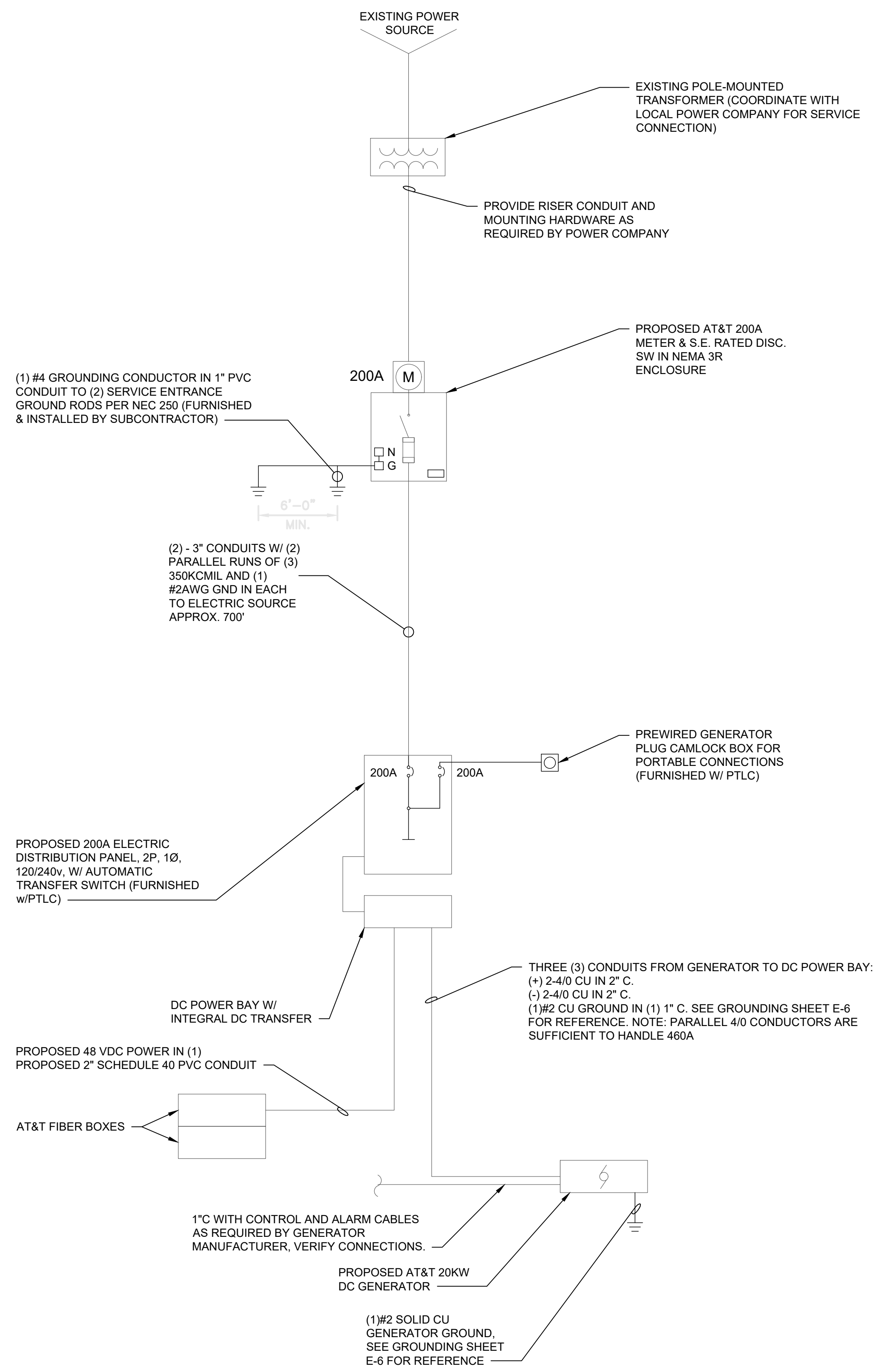


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SHEET NUMBER: **E-2** REVISION: **L**



1 TOP OF HILL ELECTRICAL PLAN
SCALE: NO SCALE

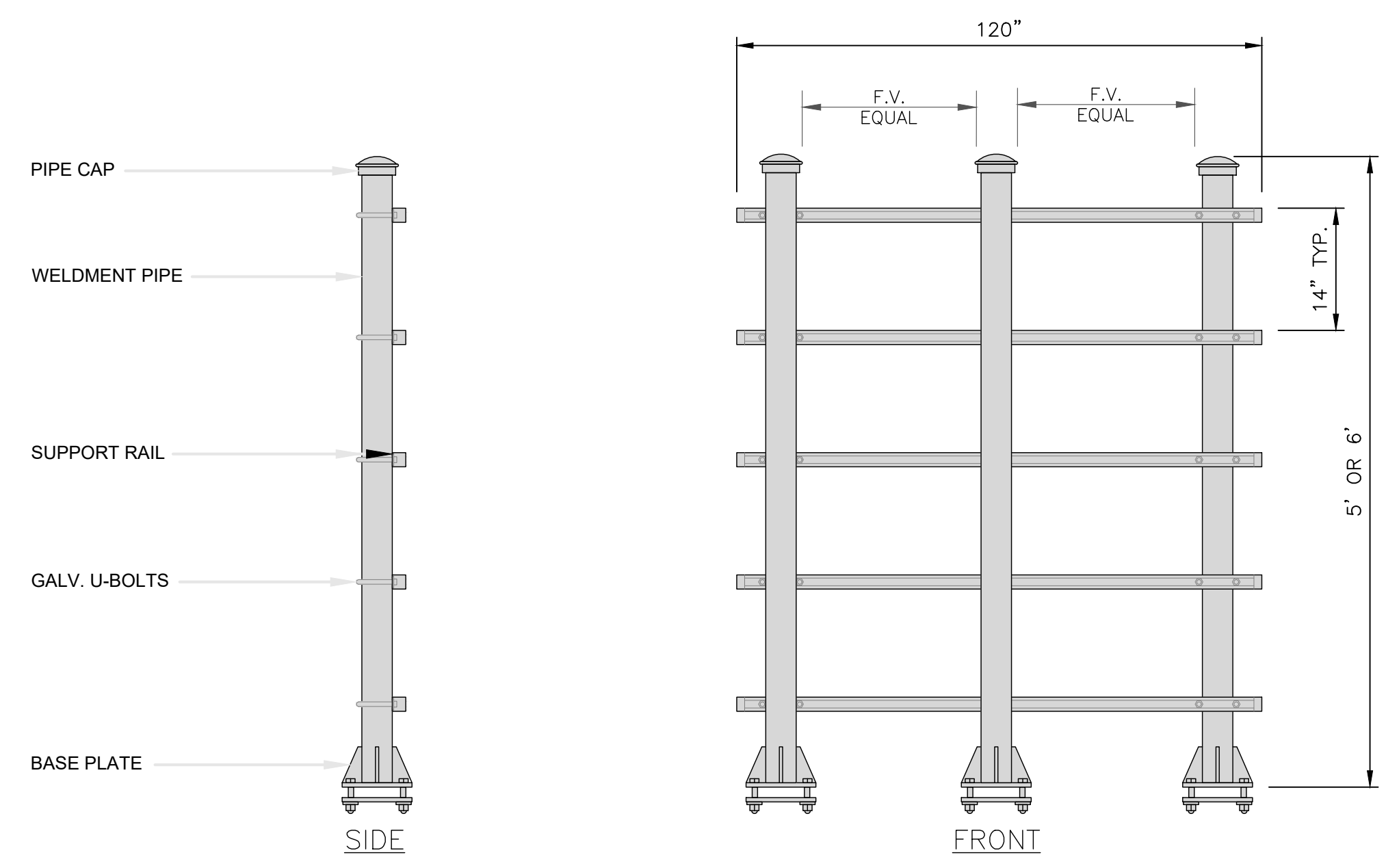


1 ONE LINE DIAGRAM
SCALE: NO SCALE

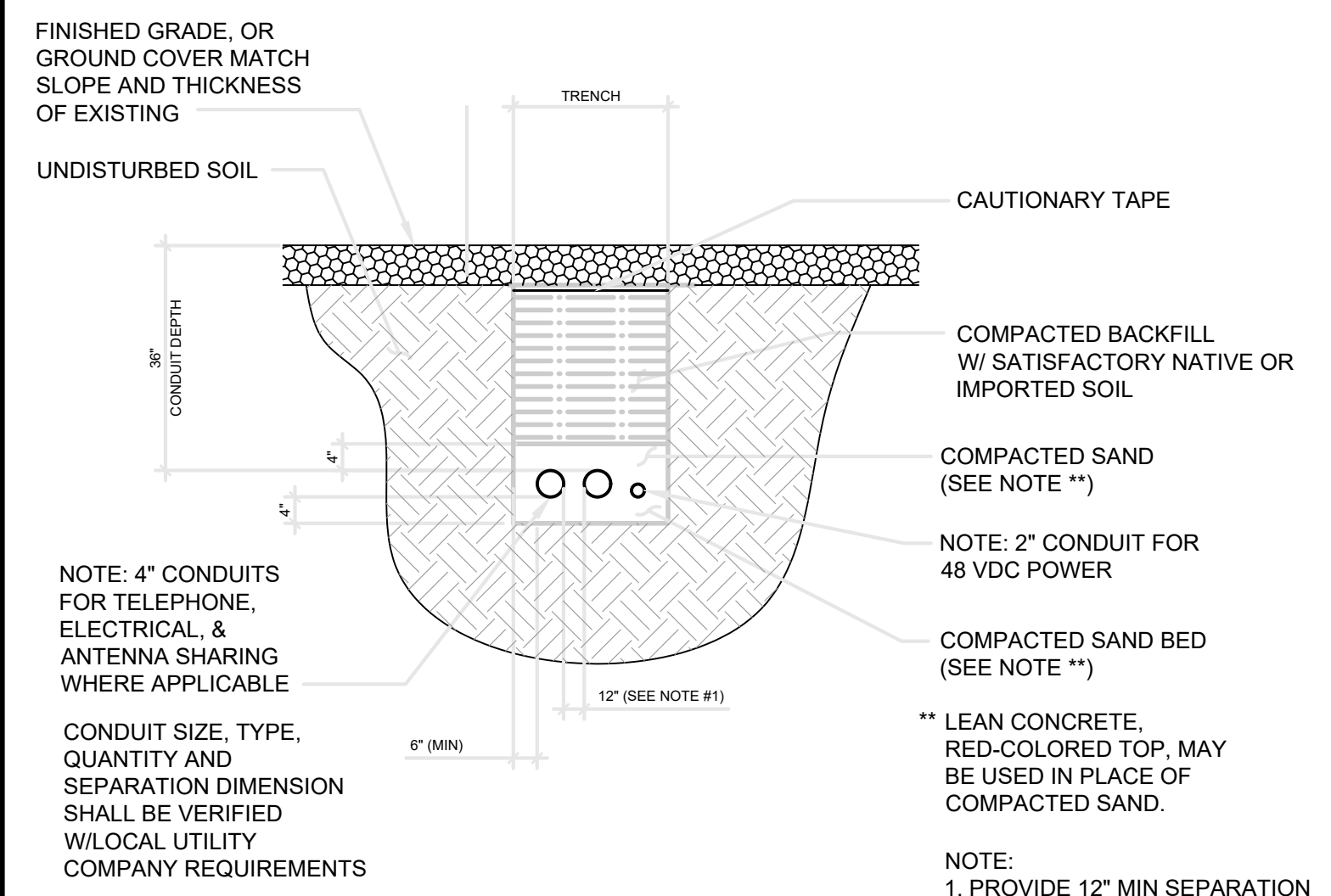
CONTRACTOR SHALL INSTALL PER LATEST EDITION OF THE NEC

CONTRACTOR SHALL COORDINATE CONTROLS AND ALARMS, CONDUITS, WIRES AND TERMINATIONS FROM DC GENERATOR AS REQUIRED BY MANUFACTURER

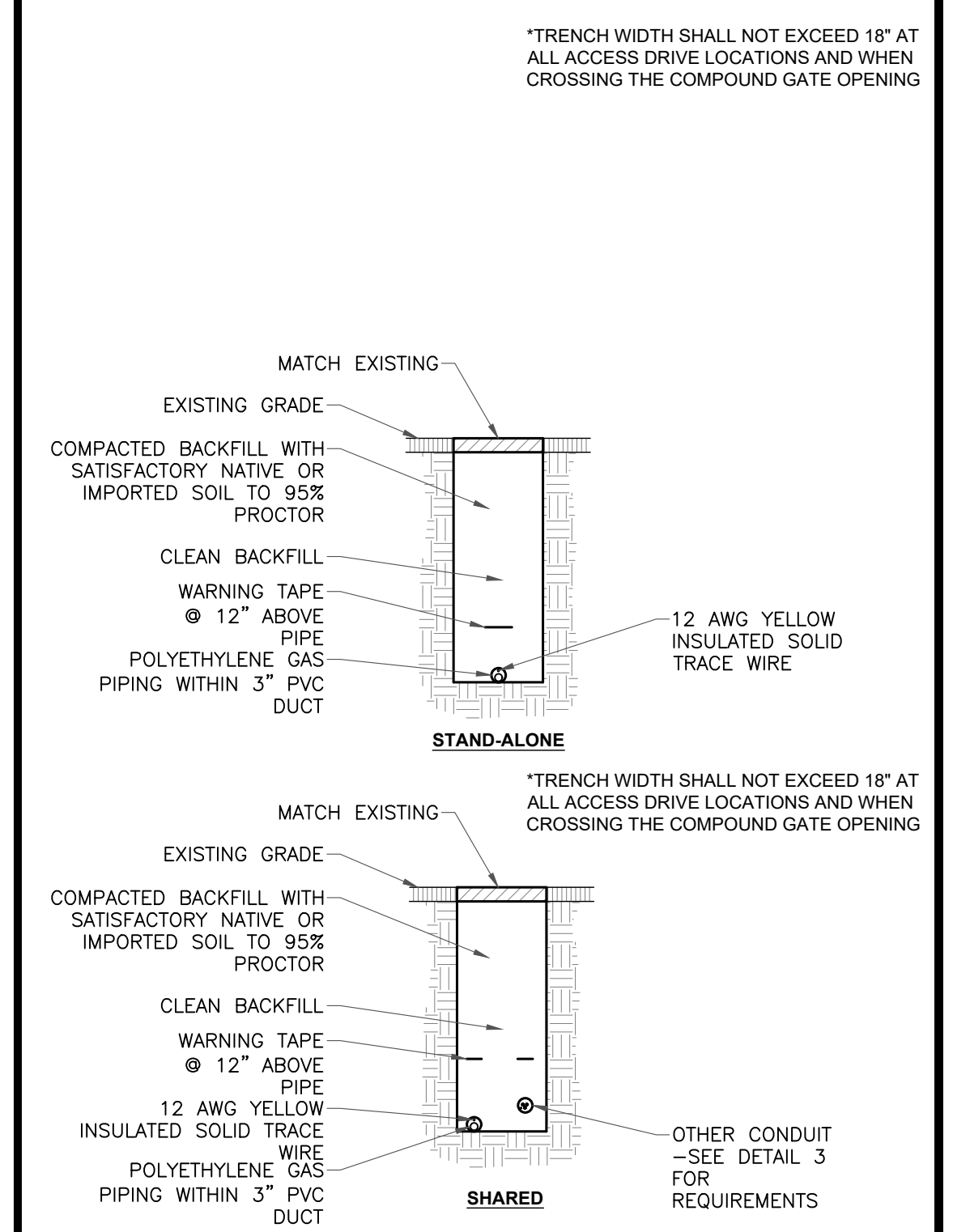
COMMSCOPE MTC4045HFLD H-FRAME	
UNISTRUT/SUPPORT RAILS QTY	5
WEIGHT	59.74 lbs



2 H-FRAME DETAIL
SCALE: NO SCALE



3 TRENCHING DETAIL
SCALE: NO SCALE



3 GAS TRENCHING DETAIL
SCALE: NO SCALE



AT&T SITE NUMBER:
GRANMI5943

750 PARK ST.
SAUGATUCK, MI 49453

EXISTING 90'-0" SELF SUPPORT TOWER WITH RADOME

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
A	10/21/2022	CRM	90% CD's FOR REVIEW	ES
B	10/26/2022	CRM	REV. PER COMMENTS	ES
C	12/15/2022	CRM	REV. PER COMMENTS	ES
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L	09/08/2023	CRM	FOR ZONING	ES



SHEET NUMBER: **E-3** REVISION: **L**



AT&T SITE NUMBER:
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750 PARK ST.
SAUGATUCK, MI 49453

EXISTING 90'-0" SELF
SUPPORT TOWER WITH
RADOME

ISSUED FOR:

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K	08/23/2023	CRM	REV. PER COMMENTS	ES
L	09/08/2023	CRM	FOR ZONING	ES

STATE OF MICHIGAN
STEVEN P. SCHAUB
ENGINEER
License No. 6201060461
09/08/2023

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SHEET NUMBER: **E-4** REVISION: **L**

VOLTAGE:		120/240V		PHASE:		1		WIRE:		3					
MAIN BREAKER:		200 AMP		BUSS RATING:		200 AMPS		AIC:		22K (VERIFY IN FIELD. SEE NOTE 29 ON SHEET E-3)					
MOUNT:		SURFACE		NEUTRAL BAR:		YES		GROUND BAR:		YES					
ENCLOSURE TYPE:		NEMA 3R		N to GROUND BOND:		NO									
PANEL STATUS:		PROPOSED		INTERNAL TVSS:		YES									
CKT	LOAD DESCRIPTION	BREAKE R AMPS	BREAKER POLES	BREAKER STATUS	SERVICE LOAD VA	USAGE FACTOR	PHASE A VA	PHASE B VA	USAGE FACTOR	SERVICE LOAD VA	BREAKER STATUS	BREAKER POLES	BREAKER AMPS	LOAD DESCRIPTION	CKT
1	RECTIFIER 1 & 2	25	2	ON	2150	1.00	2330		1.00	180	ON	1	20	GFCI	2
3				ON	2150	1.00		4300	1.00	2150	ON				RECTIFIER 7 & 8
5	RECTIFIER 3 & 4	25	2	ON	2150	1.00	4300		1.00	2150	ON				6
7				ON	2150	1.00		4300	1.00	2150	ON				RECTIFIER 9 & 10
9	RECTIFIER 5 & 6	25	2	ON	2150	1.00	4300		1.00	2150	ON				10
11				ON	2150	1.00		2150	1.00	0	OFF				SPARE
13	SPARE	30	2	OFF	0	1.00	0		1.00	0	OFF	2	30		14
15				OFF	0	1.00		0	1.00	0	N/A	---	---	---	
17	---	---	---	N/A	0	1.00	0		1.00	0	N/A	---	---	---	18
19	---	---	---	N/A	0	1.00		0	1.00	0	N/A	---	---	---	20
21	---	---	---	N/A	0	1.00	0		1.00	0	N/A	---	---	---	22
23	---	---	---	N/A	0	1.00		0	1.00	0	N/A	---	---	---	24
25	---	---	---	N/A	0	1.00	0		1.00	0	N/A	---	---	---	26
27	---	---	---	N/A	0	1.00		0	1.00	0	N/A	---	---	---	28
29	---	---	---	N/A	0	1.00	0		1.00	0	N/A	---	---	---	30
							10930	10750	VA				TOTAL KVA	21.68	
													AMPS	90.33	
EQUIPMENT CABINET SCHEDULE															

1 MAIN PANEL SCHEDULE
SCALE: NO SCALE

A. WORK INCLUDED:

THIS SPECIFICATION AND ACCOMPANYING DRAWING CONTEMPLATE THE PROVISIONS AND INSTALLATION, BY THE ELECTRICAL CONTRACTOR OF ALL LABOR, MATERIALS AND EQUIPMENT REQUIRED TO INSTALL THE ELECTRICAL WORK COMPLETE IN CONNECTION WITH THIS AT&T MOBILITY SITE AND SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING:

1. THE PROVISIONS, INSTALLATION AND CONNECTION OF A GROUNDING ELECTRODE SYSTEM COMPLETE WITH A BUILDING AND SECONDARY GROUNDING, TOWER GROUNDING AND CONNECTIONS TO THE INCOMING ELECTRICAL DISTRIBUTION EQUIPMENT.
2. THE PROVISIONS AND INSTALLATION OF AN ELECTRICAL SERVICE AND ALL ASSOCIATED WIRE AND CONDUIT AS REQUIRED AND/OR INDICATED ON PLANS.
3. ALL UNDERGROUND CONDUITS SHALL BE SCHEDULE 40 PVC. (UNLESS OTHERWISE NOTED).
4. ALL CONDUITS SHALL BE LEFT WITH 200# TEST PULL WIRE. (UNLESS NOTED OTHERWISE) STUB & PLUG BOTH ENDS OF ALL SPARE CONDUITS UP AT 12" ABOVE GRADE.
5. THE SUBCONTRACTOR SHALL FURNISH AND INSTALL THE ELECTRICAL SERVICE ENTRANCE CONDUCTORS AND CONDUIT AND MAKE THE CONNECTION TO THE SERVICE EQUIPMENT WITHIN THE BUILDING.
6. SUBCONTRACTOR SHALL NOTIFY ELECTRIC AND TELEPHONE SERVICES CONTACT AT START OF CONSTRUCTION (2 WEEKS MIN.):

POWER CO.: CONSUMERS ENERGY
CONTACT:
PHONE #:

TELEPHONE CO.:
CONTACT:
PHONE #:

7. ABOVE GRADE RISER CONDUIT SHALL BE GALVANIZED STEEL WITH MATCHING FITTINGS.
8. THE SUBCONTRACTOR SHALL PERFORM ALL WORK SHOWN ON THE BUILDING DRAWINGS NOTED "FIELD WORK" OR OTHERWISE NOTED AS WIRING TO BE COMPLETED IN THE FIELD.
9. ALL WIRE SHALL BE (COPPER, 600V THHW, 90°C) UNLESS NOTED OTHERWISE.

B. CODES, PERMITS AND FEES:

1. ALL REQUIRED PERMITS, LICENSES, INSPECTIONS AND APPROVALS SHALL BE SECURED AND ALL FEES FOR SAME PAID BY SUBCONTRACTOR.
2. THE INSTALLATION SHALL COMPLY WITH ALL APPLICABLE CODES AND ORDINANCES; STATE, LOCAL AND NATIONAL, AND THE DESIGN, PERFORMANCE CHARACTERISTICS AND METHODS OF CONSTRUCTION OF ALL ITEMS AND EQUIPMENT, SHALL BE IN ACCORDANCE WITH THE LATEST ISSUE OF THE VARIOUS APPLICABLE STANDARD SPECIFICATIONS OF THE FOLLOWING RECOGNIZED AUTHORITIES:

A.N.S.I. - AMERICAN NATIONAL STANDARDS INSTITUTE
I.E.E.E. - INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS
N.E.C. - NATIONAL ELECTRIC CODE
N.E.M.A. - NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
N.F.P.A. - NATIONAL FIRE PROTECTION ASSOCIATION
U.L. - UNDERWRITERS LABORATORIES, INC.

3. THE SUBCONTRACTOR SHALL BE LICENSED TO PERFORM WORK IN THE STATE, CITY OR COUNTY OF THE PROJECT SITE AS REQUIRED.

4. UTILITY COMPANY COORDINATION

ELECTRICAL CONTRACTOR SHALL COMPLETE ALL WORK IN ACCORDANCE WITH THE RULES OF THE LOCAL UTILITY COMPANY. BEFORE SUBMITTING HIS BID, THE SUBCONTRACTOR SHALL CHECK WITH THE UTILITY COMPANIES SUPPLYING SERVICE TO THIS PROJECT AND SHALL DETERMINE FROM THEM ALL EQUIPMENT AND CHARGES WHICH THEY WILL REQUIRE AND SHALL INCLUDE THE COST IN HIS BID WHENEVER POSSIBLE.

5. UTILITIES:

THE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR THE EXCAVATION AND PROPER BACKFILLING OF TRENCHES AND SUPPLY CONDUIT REQUIRED FOR UNDERGROUND TELEPHONE & ELECTRICAL UTILITIES. ALL TRENCHING SHALL BE COMPACTED TO 95% MAXIMUM DRY DENSITY IN ACCORDANCE W/ASTM D-1557 IN 6" LIFTS.

THE ELECTRICAL TRENCH SHALL START AT THE NEW PREFABRICATED RADIO EQUIPMENT BUILDING AND END AT THE NEW METER BOARD STRUCTURE. THE SUBCONTRACTOR SHALL THEN STUB THE CONDUIT 5' OUTSIDE THE FENCE. THE ELECTRIC PROVIDER SHALL PROVIDE SERVICE TO THE NEW METER BOARD STRUCTURE. THE SUBCONTRACTOR SHALL PROPERLY BACKFILL THE TRENCHES AFTER SETTLEMENT AND RESTORE GRAVEL COMPOUND. CONTACT ELECTRIC PROVIDER SIX WEEKS PRIOR TO CONSTRUCTION FOR SERVICE AND COORDINATION OF ACCESS TO SITE.

THE SUBCONTRACTOR SHALL RUN THE TELEPHONE TRENCH AND CONDUIT FROM THE NEW PREFABRICATED RADIO EQUIPMENT BUILDING TO THE NEW TELCO METER BOARD STRUCTURE. THE SUBCONTRACTOR SHALL THEN RUN CONDUIT W/PULL STRING OUTSIDE THE FENCE IN THE UTILITY EASEMENT TO THE R.O.W. THE SUBCONTRACTOR SHALL STAKE THE LOCATIONS OF THE PULL BOXES. THE TELCO PROVIDER SHALL PROVIDE SERVICE TO THE METER BOARD STRUCTURE. THE SUBCONTRACTOR SHALL PROPERLY BACKFILL THE TRENCHES AFTER SETTLEMENT AND RESTORE THE GRAVEL COMPOUND.

2. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE LOCAL CODES.
3. CONDUIT ROUTINGS ARE SCHEMATIC. SUBCONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED.
4. WIRING, RACEWAY AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC AND TELCORDIA.
5. ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC AND TELCORDIA.
6. CABLES SHALL NOT BE ROUTED THROUGH LADDER-STYLE CABLE TRAY RUNGS.
7. EACH END OF EVERY POWER, POWER PHASE CONDUCTOR (I.E., HOTS), GROUNDING, AND T1 CONDUCTOR AND CABLE SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2 INCH PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC & OSHA.
8. ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH ENGRAVED LAMACOID PLASTIC LABELS. ALL EQUIPMENT SHALL BE LABELED WITH THEIR VOLTAGE RATING, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPICITY RATING, AND BRANCH CIRCUIT ID NUMBERS (I.E., PANEL BOARD AND CIRCUIT ID'S).
9. PANEL BOARDS (ID NUMBERS) AND INTERNAL CIRCUIT BREAKERS (CIRCUIT ID NUMBERS) SHALL BE CLEARLY LABELED WITH ENGRAVED LAMACOID PLASTIC LABELS.
10. ALL TIE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES.
11. POWER, CONTROL, AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE CONDUCTOR (14 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90 °C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE SPECIFIED.
12. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE CONDUCTOR (#6 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90 °C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE SPECIFIED.
13. POWER AND CONTROL WIRING, NOT IN TUBING OR CONDUIT, SHALL BE MULTI-CONDUCTOR, TYPE TC CABLE (#14 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90 °C (WET AND DRY) OPERATION; WITH OUTER JACKET; LISTED OR LABELED FOR THE LOCATION USED, UNLESS OTHERWISE SPECIFIED.
14. ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP-STYLE, COMPRESSION WIRE LUGS AND WIRENUTS BY THOMAS AND BETTS (OR EQUAL). LUGS AND WIRENUTS SHALL BE RATED FOR OPERATION AT NO LESS THAN 75°C (90°C IF AVAILABLE).
15. RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSII/IEEE, AND NEC.
16. ELECTRICAL METALLIC TUBING (EMT) OR RIGID NONMETALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 40, OR RIGID PVC SCHEDULE 80 FOR LOCATIONS SUBJECT TO PHYSICAL DAMAGE) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.
17. ELECTRICAL METALLIC TUBING (EMT), ELECTRICAL NONMETALLIC TUBING (ENT), OR RIGID NONMETALLIC CONDUIT (RIGID PVC, SCHEDULE 40) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.
18. GALVANIZED STEEL INTERMEDIATE METALLIC CONDUIT (IMC) SHALL BE USED FOR OUTDOOR LOCATIONS ABOVE GRADE.
19. RIGID NONMETALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 40 OR RIGID PVC SCHEDULE 80) SHALL BE USED UNDERGROUND; DIRECT BURIED, IN AREAS OF OCCASIONAL LIGHT VEHICLE TRAFFIC OR ENCASED IN REINFORCED CONCRETE IN AREAS OF HEAVY VEHICLE TRAFFIC.
20. LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.
21. CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED. SETSCREW FITTINGS ARE NOT ACCEPTABLE.
22. CABINETS, BOXES, AND WIREWAYS SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSII/IEEE, AND NEC.
23. WIREWAYS SHALL BE EPOXY-COATED (GRAY) AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARD; SHALL BE PANDUIT TYPE E (OR EQUAL); AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS.
24. EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES, AND PULL BOXES SHALL BE GALVANIZED OR EPOXY-COATED SHEET STEEL, SHALL MEET OR EXCEED UL 50, AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS.
25. METAL RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY-COATED, OR NON-CORRODING; SHALL MEET OR EXCEED UL 514A AND NEMA OS 1; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
26. NONMETALLIC RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
27. THE SUBCONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CONTRACTOR BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.
28. THE SUBCONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD AGAINST LIFE AND PROPERTY.



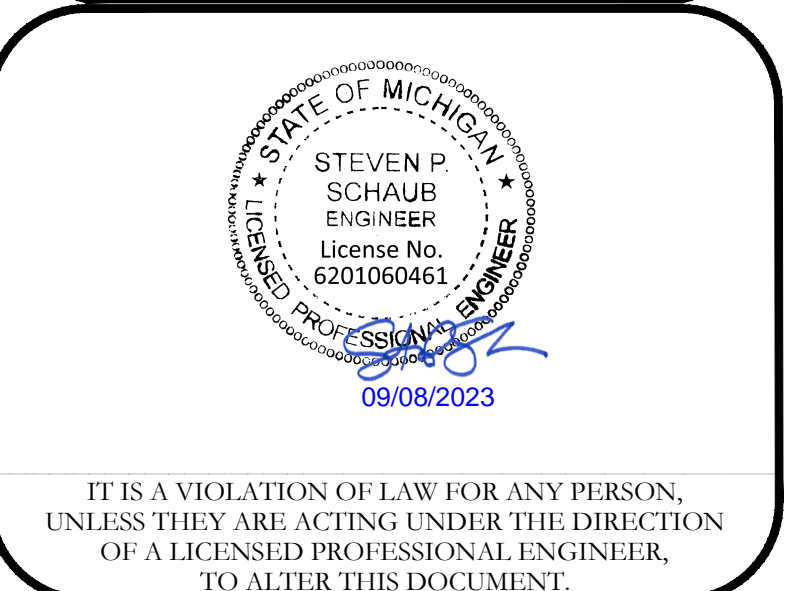
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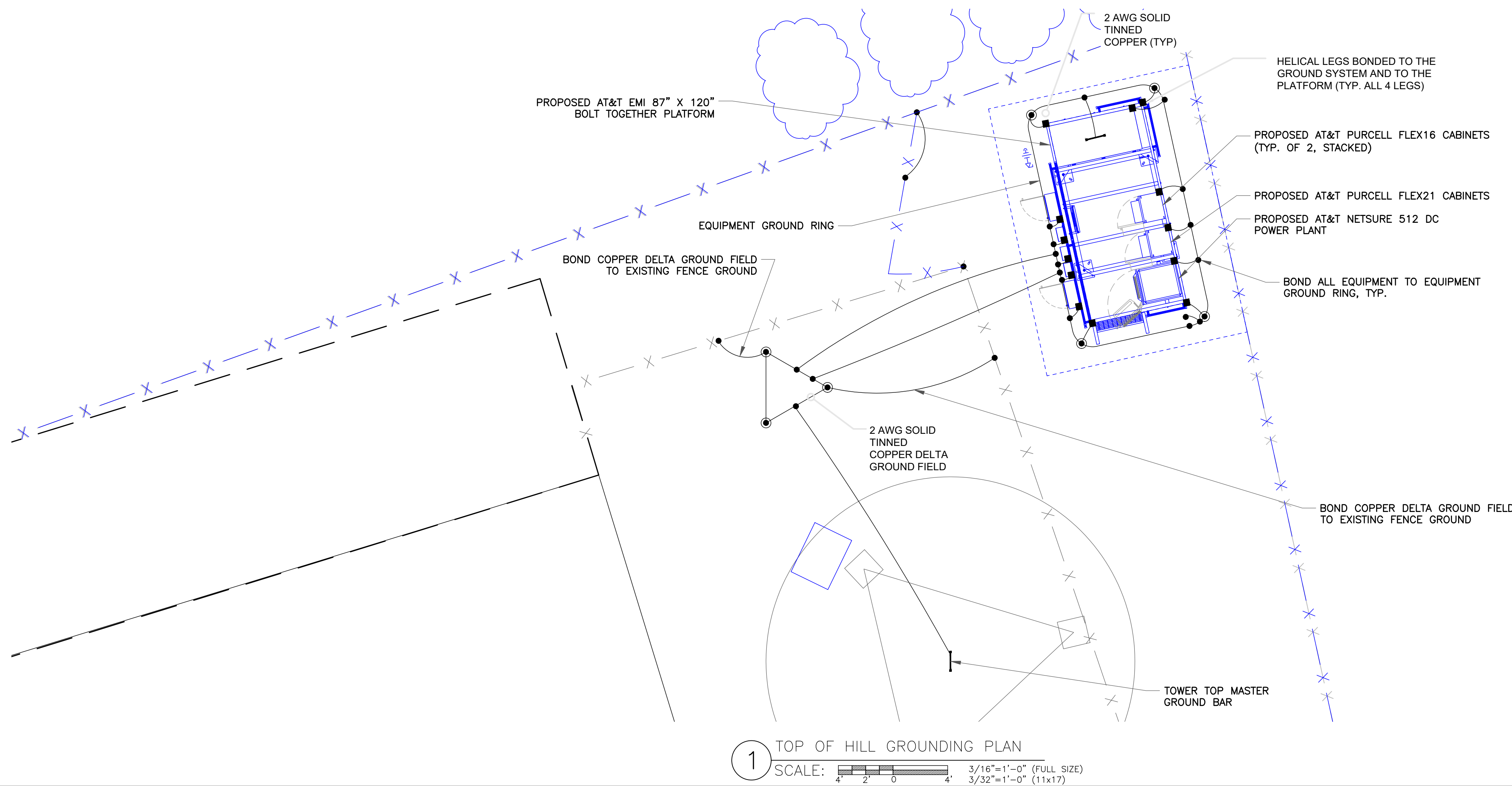
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SHEET NUMBER: **4 E-5** REVISION: **L**



1 TOP OF HILL GROUNDING PLAN
 SCALE: 3/16"=1'-0" (FULL SIZE)
 3/32"=1'-0" (11x17)

NOTE 1:

- CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF EXISTING GROUNDING PRIOR TO TRENCHING.
- CONTRACTOR SHALL MAINTAIN CONTINUITY OF EXISTING GROUND RING BY SPLICING (VIA CADWELD) ANY CUT OR BROKEN SECTIONS WITH 2 AWG SOLID TINNED COPPER TO EXISTING OR NEW GROUNDING.

NOTE 2:

- CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UNDERGROUND UTILITY LINES PRIOR TO ANY EXCAVATION.
- CONTRACTOR SHALL HAND DIG IN THE VICINITY OF ALL EXISTING LINES.

LEGEND

- ⊙ INSPECTION PORT
- ⊕ GROUND ROD - 5/8"x10' W/ CADWELD GROUND CONNECTION
- MECHANICAL CONNECTION
- CADWELD CONNECTION

- GROUNDING IS SHOWN DIAGRAMMATICALLY ONLY. FOR GROUNDING DETAILS SEE DRAWINGS G-2 THRU G-4
- TESTING SHALL BE PERFORMED AT ALL SITES WHERE MODIFICATIONS OR ADDITIONS ARE MADE TO THE EXISTING GROUNDING SYSTEM AND SHALL BE IN ACCORDANCE WITH AT&T GROUNDING AND BONDING STANDARDS TP-76416. THE CONTRACTOR SHALL SUPPLY AT&T WITH RESULTS FROM PRE-CONSTRUCTION AND POST-CONSTRUCTION OHM TESTING (GROUNDING) RESULTS AND BE IN COMPLIANCE WITH AT&T GROUNDING AND BONDING STANDARDS TP-76416.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE A "FALL OF POTENTIAL" TEST ON THE PROPOSED SUPPLEMENTAL GROUNDING FIELD PRIOR TO FINAL CONNECTION OF THE GROUNDING SYSTEM TO EQUIPMENT. THE TEST SHALL BE PERFORMED BY A QUALIFIED AND CERTIFIED TESTING AGENT. PROVIDE INDEPENDENT TEST RESULTS TO THE PROJECT MANAGER FOR REVIEW. THE GROUNDING SYSTEM RESISTANCE TO EARTH GROUNDING SHALL NOT EXCEED (5) OHMS. IF THE GROUNDING TEST EXCEEDS THE MAXIMUM OF (5) OHMS, THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ADDITIONAL GROUNDING RODS AND CONNECTIONS AS REQUIRED TO MEET THE (5) OHMS' MAXIMUM.
- THE INSPECTOR HAVING JURISDICTION SHALL INSPECT ALL GROUNDING CONNECTIONS FOR TIGHTNESS. EXOTHERMIC WELDED CONNECTIONS SHALL BE APPROVED BEFORE BEING PERMANENTLY CONCEALED.
- FOR ALL CONNECTIONS TO THE GROUNDING RING, SEE THE EQUIPMENT MANUFACTURER'S DRAWINGS.
- WHEN AN EXISTING METER RACK IS BEING UTILIZED AND A NEW METER IS INSTALLED IN THE EXISTING METER RACK, THE GROUNDING RODS, AND GROUNDING CONDUCTORS OF THE EXISTING GROUNDING RING, SHALL BE EXTENDED TO THE PROPOSED GROUNDING RING AND BECOME A COMPLETE GROUNDING SYSTEM.
- CONTRACTOR SHALL GROUND ALL EQUIPMENT INCLUDING ANTENNAS, RET MOTORS, TMA'S, COAX CABLES AND RET CONTROL CABLES AS A COMPLETE SYSTEM. GROUNDING SHALL BE EXECUTED BY QUALIFIED WIREMEN IN COMPLIANCE WITH MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
- WHEN A CANOPY IS INSTALLED, THE CANOPY SHALL BE EFFECTIVELY GROUND AS REQUIRED BY AT&T GROUNDING AND BONDING STANDARDS TP-76416.
- WHEN A SUPPORT PLATFORM STRUCTURE IS EMPLOYED, ROUTE GROUNDING CONDUCTORS UNDERNEATH AND ON THE SUPPORTING MEMBERS, USING APPROVED STRAPS AS REQUIRED IN AT&T GROUNDING AND BONDING ARTICLE 6.4.1.7 STATED IN TP-76416.
- MAIN GROUNDING CONDUCTORS SHALL BE ROUTED AND BONDED TO ALL EFFECTIVE GROUNDING PATHS IN ACCORDANCE WITH AT&T GROUNDING AND BONDING SPECIFICATION 6.8.2 STATED IN TP-76416. THE NEW GROUNDING SYSTEM SHALL BE BONDED (2 PLACES) TO ALL EXISTING GROUNDING SYSTEMS, INCLUDING BUT NOT LIMITED TO BUILDING STEEL STRUCTURE, LIGHTNING PROTECTION SYSTEMS, BUILDING MAIN GROUNDING SYSTEM AND/OR MAIN WATER SUPPLY IF APPLICABLE.
- CONNECTIONS TO THE BURIED GROUND RING SHALL BE EXOTHERMICALLY WELDED BY A CERTIFIED TECHNICIAN. CONNECTIONS TO ABOVE GROUND UNITS SHALL BE MAKE WITH EXOTHERMIC WELD, WHERE PRACTICAL, OR WITH 2 HOLE CONNECTIONS.
- GROUND WIRE SHALL HAVE A MINIMUM BEND RADIUS OF 8" AND >90°.
- ALL MECHANICAL GROUND CONNECTION SHALL HAVE AN ANTI-OXIDANT COMPOUND APPLIED PRIOR TO INSTALLATION.
- THE CONTRACTOR SHALL PROVIDE TWO (2) GROUND RODS SPACED AT A MINIMUM OF 6' APART TO SATISFY EQUIPMENT GROUNDING CONDUCTOR (EGC) PER NEC REQUIREMENTS.

2 GENERAL GROUNDING NOTES
 SCALE: NOT TO SCALE

3 DETAIL NOT USED
 SCALE: NOT TO SCALE



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EXISTING 90'-0" SELF
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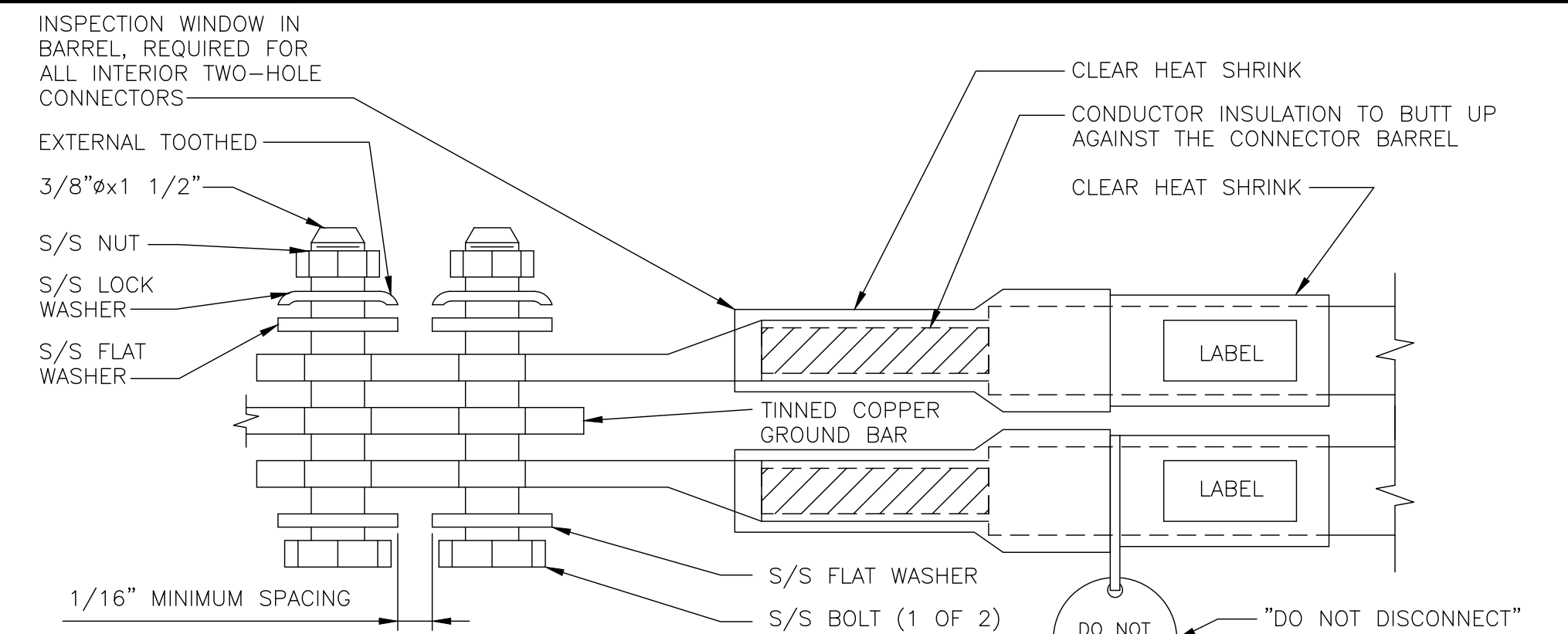
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G	05/16/2023	CRM	REV. PER COMMENTS	ES
H	06/05/2023	CRM	REV. PER COMMENTS	ES
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J	07/05/2023	CRM	REV. PER COMMENTS	ES
K	08/23/2023	CRM	REV. PER COMMENTS	ES
L	09/08/2023	CRM	FOR ZONING	ES

STATE OF MICHIGAN
 STEVEN P. SCHAUB
 ENGINEER
 License No. 6201060461
 09/08/2023
 ELECTRICAL

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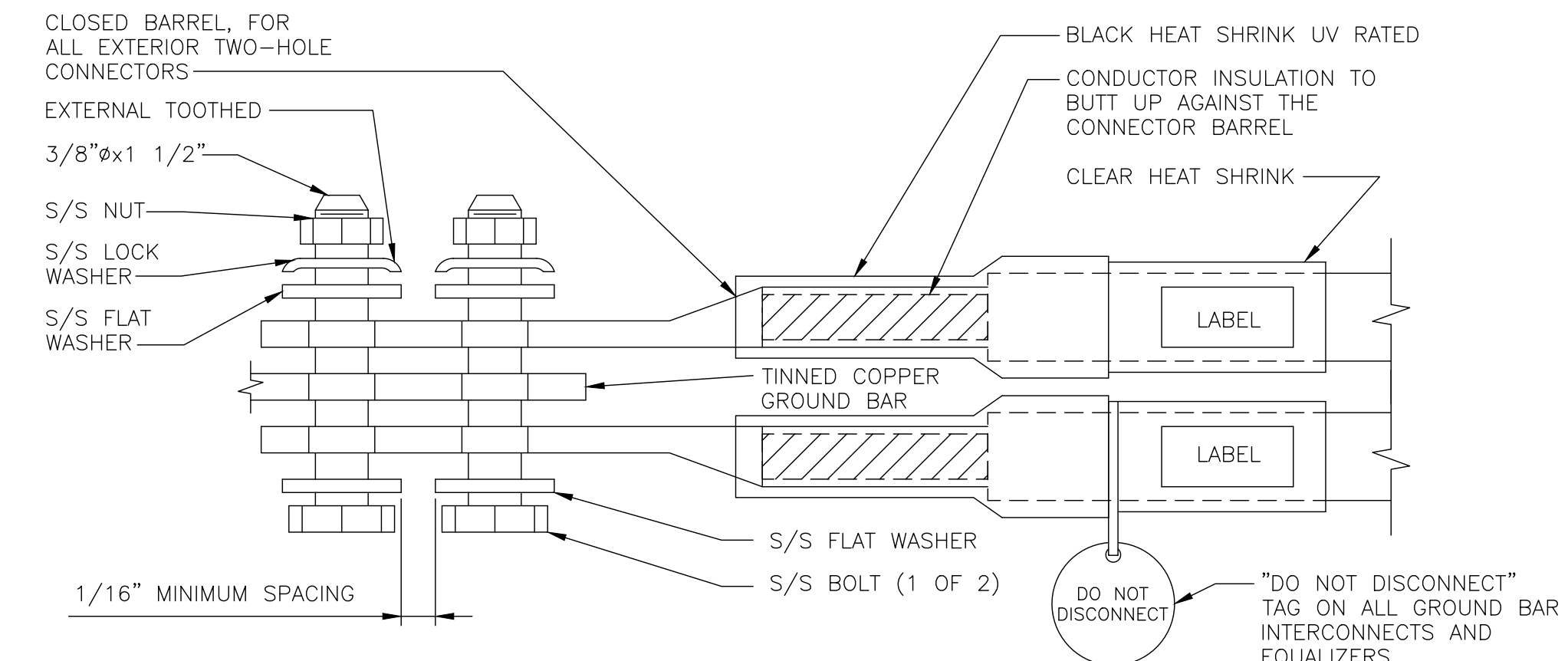
SHEET NUMBER: **G-1** REVISION: **L**



NOTES:

- EXOTHERMIC WELD (2) TWO, #2 AWG BARE TINNED SOLID COPPER CONDUCTORS TO GROUND BAR. ROUTE CONDUCTORS TO BURIED GROUND RING AND PROVIDE PARALLEL EXOTHERMIC WELD.
- ALL GROUND BARS SHALL BE STAMPED IN TO THE METAL "IF STOLEN DO NOT RECYCLE." THE CONTRACTOR SHALL USE PERMANENT MARKER TO DRAW THE LINES BETWEEN EACH SECTION AND LABEL EACH SECTION ("P", "A", "N", "I") WITH 1" HIGH LETTERS.
- ALL HARDWARE SHALL BE STAINLESS STEEL 3/8" DIAMETER OR LARGER. ALL HARDWARE 18-8 STAINLESS STEEL INCLUDING LOCK WASHERS, COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND BEFORE MATING.
- FOR GROUND BOND TO STEEL ONLY: INSERT A CADMIUM FLAT WASHER BETWEEN LUG AND STEEL, COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND BEFORE MATING.
- DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND CONDUCTOR DOWN TO GROUND BUS.
- NUT & WASHER SHALL BE PLACED ON THE FRONT SIDE OF THE GROUND BAR AND BOLTED ON THE BACK SIDE. INSTALL BLACK HEAT-SHRINKING TUBE, 600 VOLT INSULATION, ON ALL GROUND TERMINATIONS. THE INTENT IS TO WEATHERPROOF THE COMPRESSION CONNECTION.
- SUPPLIED AND INSTALLED BY CONTRACTOR.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ADDITIONAL GROUND BAR AS REQUIRED, PROVIDING 50% SPARE CONNECTION POINTS.
- ENSURE THE WIRE INSULATION TERMINATION IS WITHIN 1/8" OF THE BARREL (NO SHINERS).
- BOLTS SHALL BE MADE "SNUG-TIGHT" PLUS 1/4 TURN.

1 INTERIOR TWO-HOLE LUG DETAIL
SCALE: NOT TO SCALE



NOTES:

- EXOTHERMIC WELD (2) TWO, #2 AWG BARE TINNED SOLID COPPER CONDUCTORS TO GROUND BAR. ROUTE CONDUCTORS TO BURIED GROUND RING AND PROVIDE PARALLEL EXOTHERMIC WELD.
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- BOLTS SHALL BE MADE "SNUG-TIGHT" PLUS 1/4 TURN.

2 EXTERIOR TWO-HOLE LUG DETAIL
SCALE: NOT TO SCALE

NEWTON INSTRUMENT COMPANY, INC. BUTNER, N.C.			
NO	REQUIRED	PART NUMBER	DESCRIPTION
1	1	1/4"x4"x30"	SOLID GROUND BAR
2	2	A-6056	WALL MOUNTING BRACKET
3	2	3061-4	INSULATORS
4	4	3012-1	5/8"-11x1" H.H.C.S.
5	4	3015-8	5/8" LOCKWASHER

EACH GROUND CONDUCTOR TERMINATING ON ANY GROUND BAR SHALL HAVE AN IDENTIFICATION TAG ATTACHED AT EACH END THAT WILL IDENTIFY ITS ORIGIN AND DESTINATION

SECTION "P" - SURGE PROTECTORS

- (EC) CELL REFERENCE GROUND BAR (IF COLLOCATED)
- (EC) GENERATOR FRAMEWORK (IF AVAILABLE) (#2 AWG)
- (EC) TELCO GROUND BAR (#2 AWG)
- (EC) COMMERCIAL POWER COMMON NEUTRAL/GROUND BOND (3/0)
- (EC) FIBER GROUND BAR (#2 AWG)
- (EC) POWER ROOM REFERENCE GROUND BAR (#2 AWG)
- (AT&T) RECTIFIER FRAMES

SECTION "A" - SURGE ABSORBERS

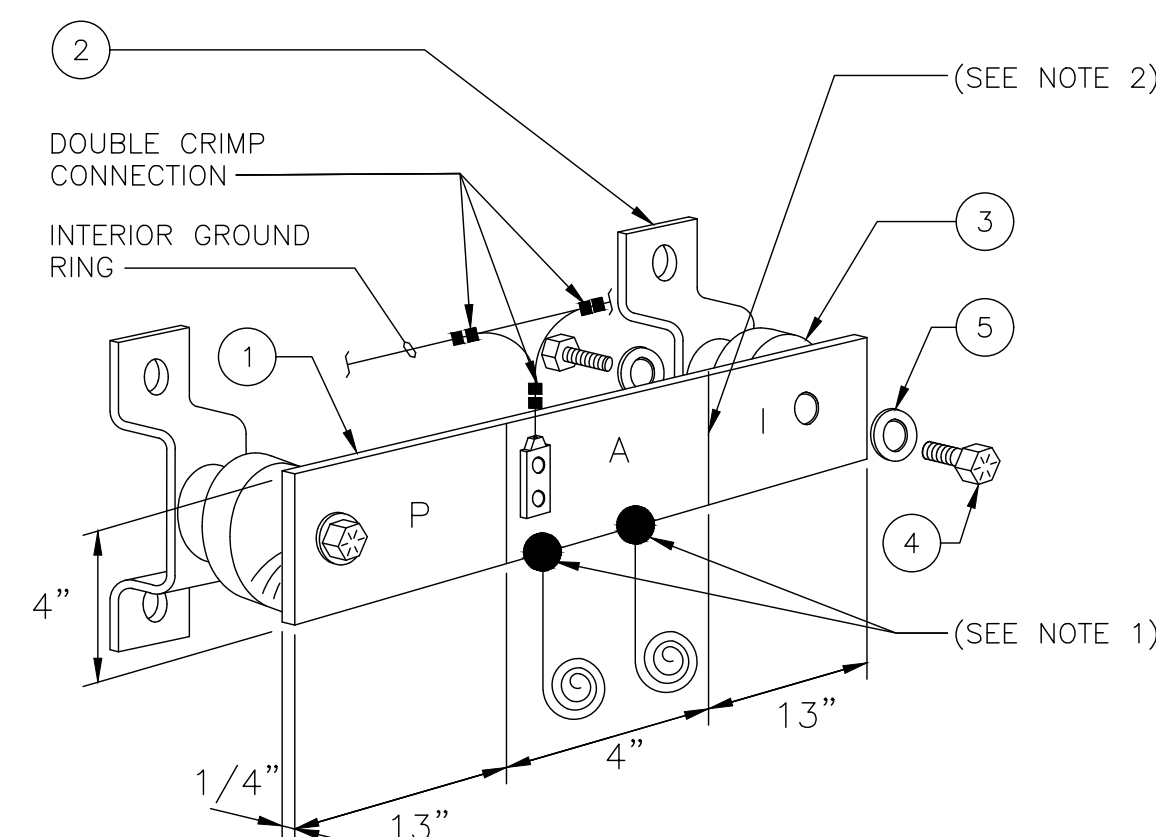
- (EC) INTERIOR GROUND RING (#2 AWG)
- (EC) EXTERNAL EARTH GROUND FIELD (BURIED GROUND RING) (#2 AWG)
- (EC) METALLIC COLD WATER PIPE (IF AVAILABLE) (1/0 AWG)
- (EC) BUILDING STEEL (IF AVAILABLE) (1/0 AWG)

SECTION "I" - ISOLATED GROUND ZONE

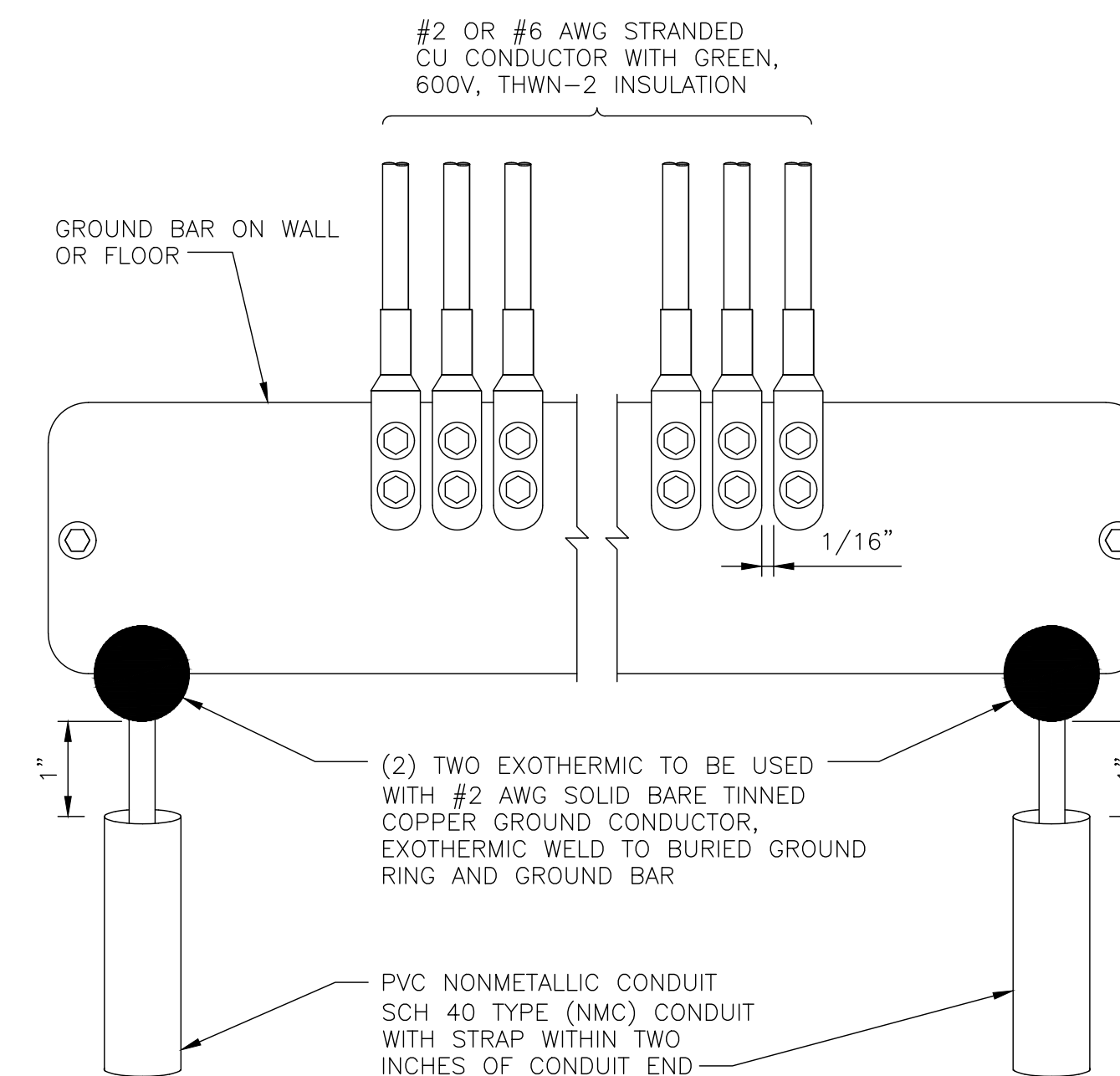
- (AT&T) ALL ISOLATED GROUND REFERENCE
- (AT&T) GROUND WINDOW BAR

DETAIL NOTES:

- EXOTHERMICALLY WELD #2 AWG BARE TINNED SOLID COPPER CONDUCTOR TO GROUND BAR. ROUTE CONDUCTOR TO BURIED GROUND RING AND PROVIDE PARALLEL EXOTHERMIC WELD.
- THE INSTALLER SHALL USE PERMANENT MARKER TO DRAW THE LIKE BETWEEN SECTION AND LABEL EACH SECTION ("P", "A", "I") WITH 1" HIGH LETTERS



3 (MGB) REFERENCE GROUNDING BAR DETAIL
SCALE: NOT TO SCALE



4 GROUNDING BAR DETAIL
SCALE: NOT TO SCALE



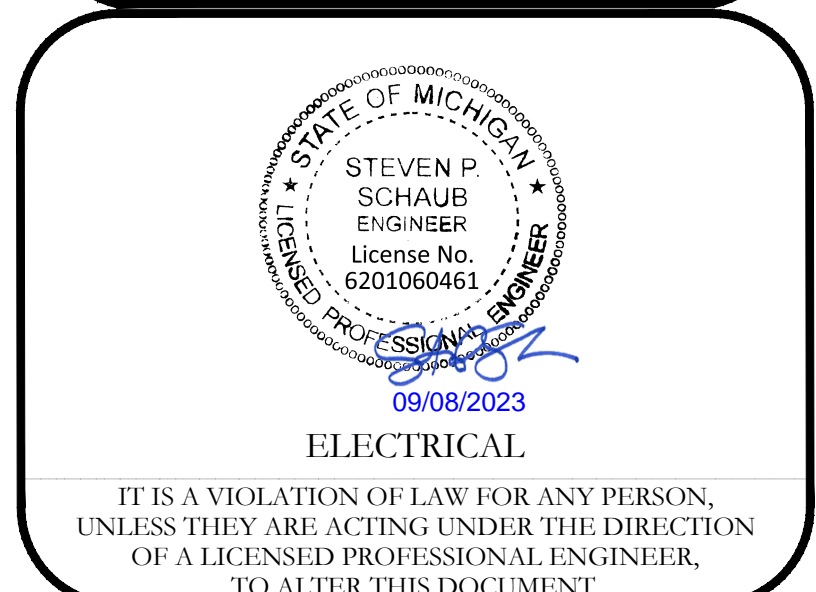
AT&T SITE NUMBER:
GRANMI5943

750 PARK ST.
SAUGATUCK, MI 49453

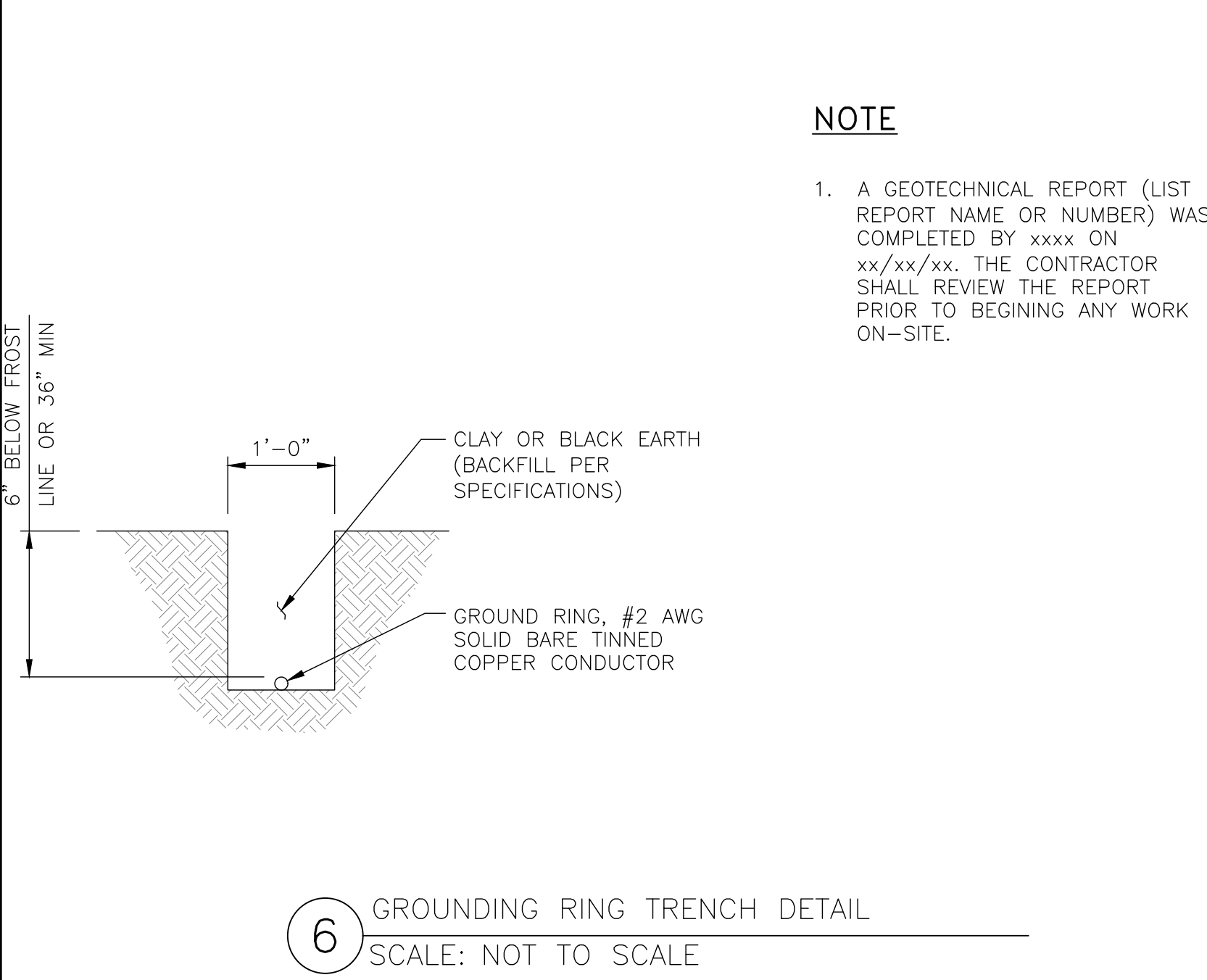
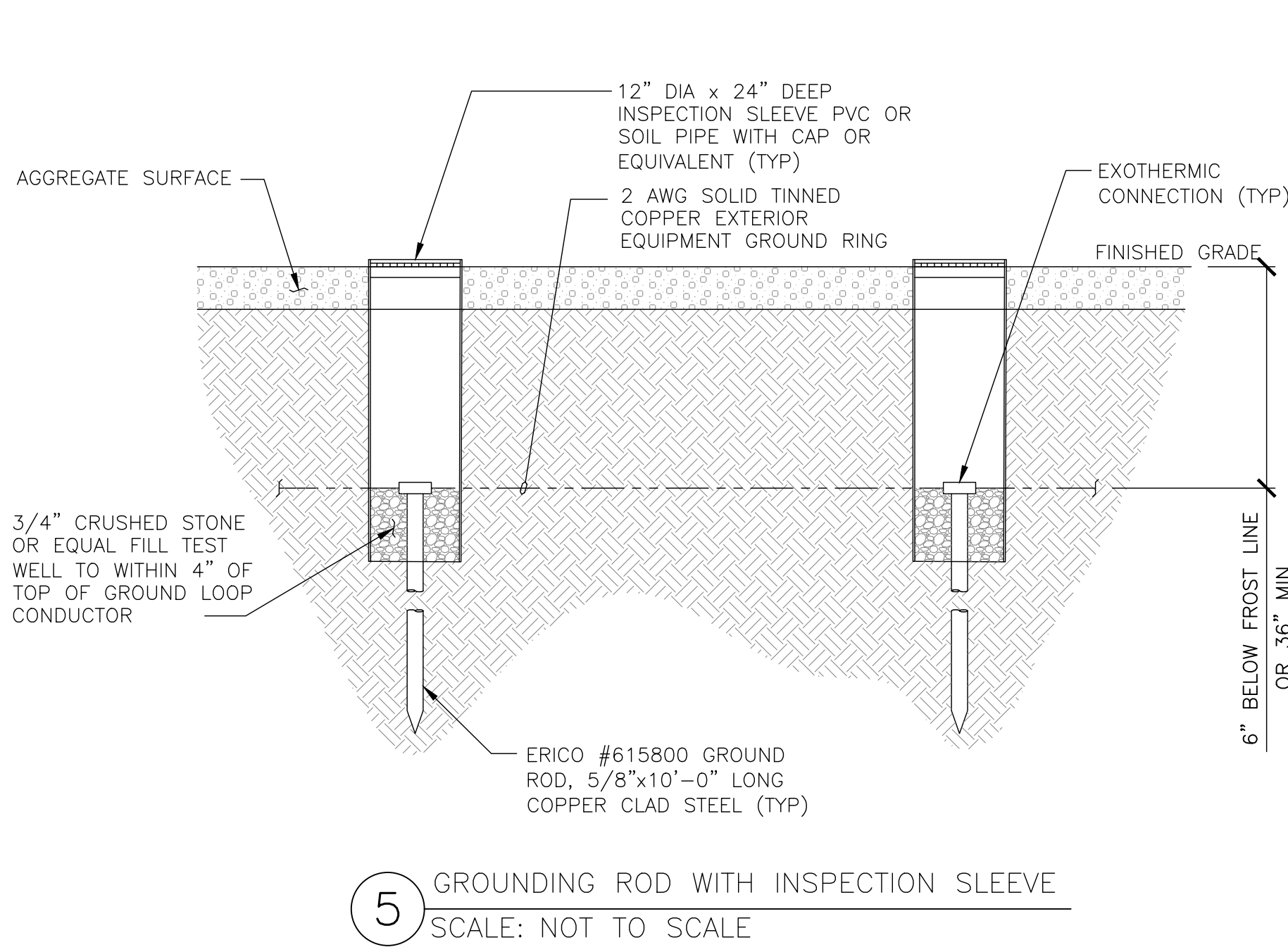
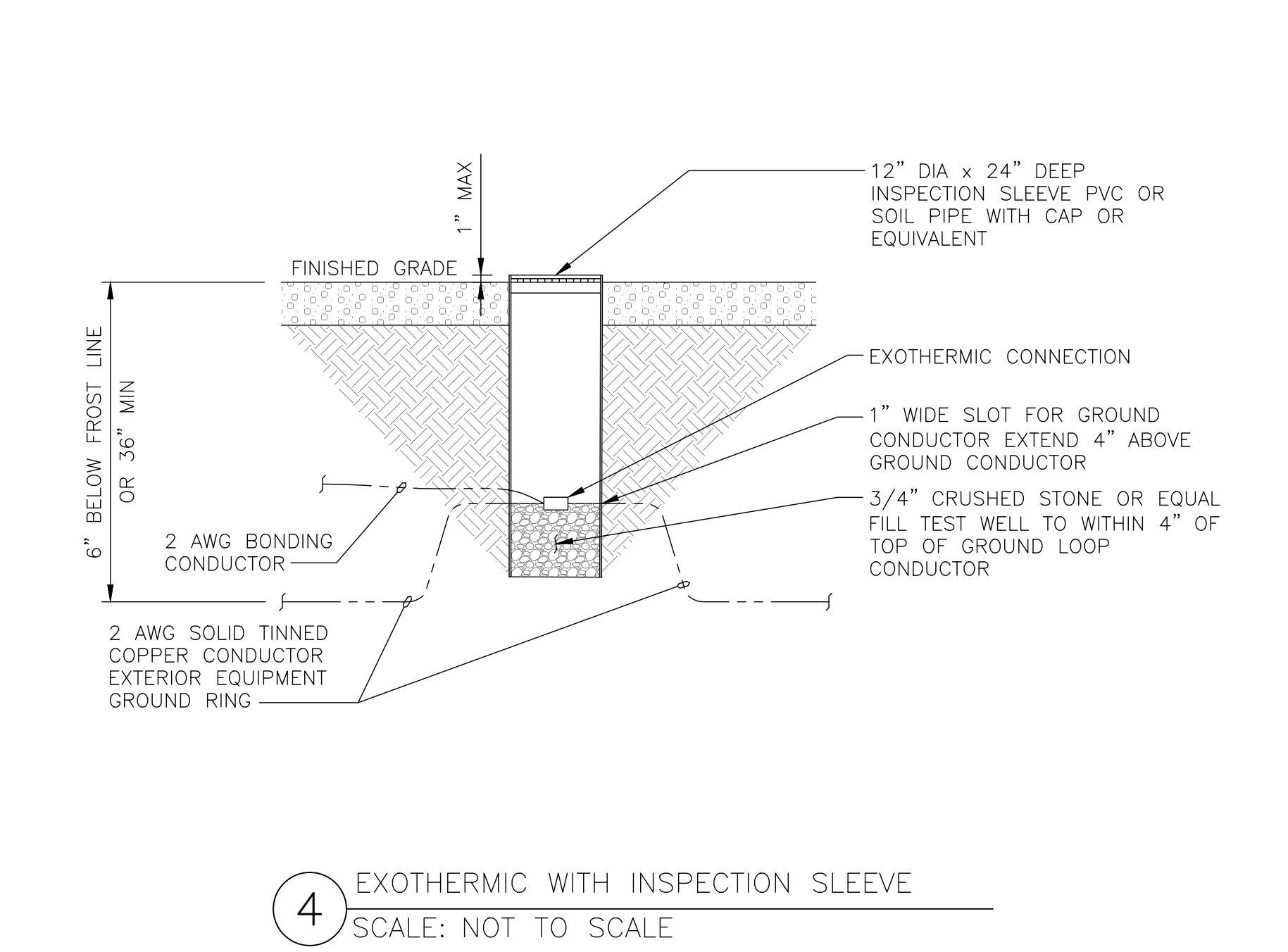
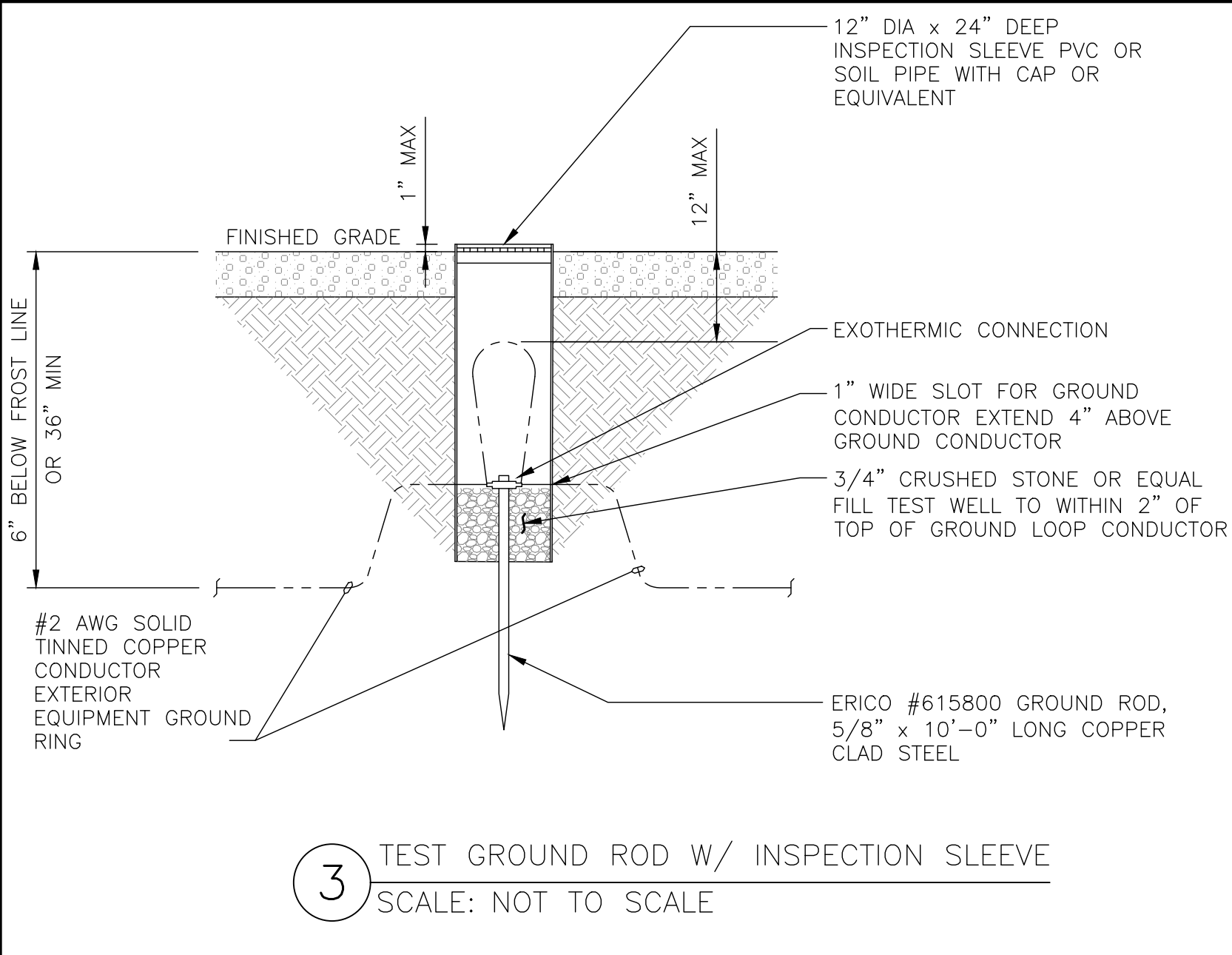
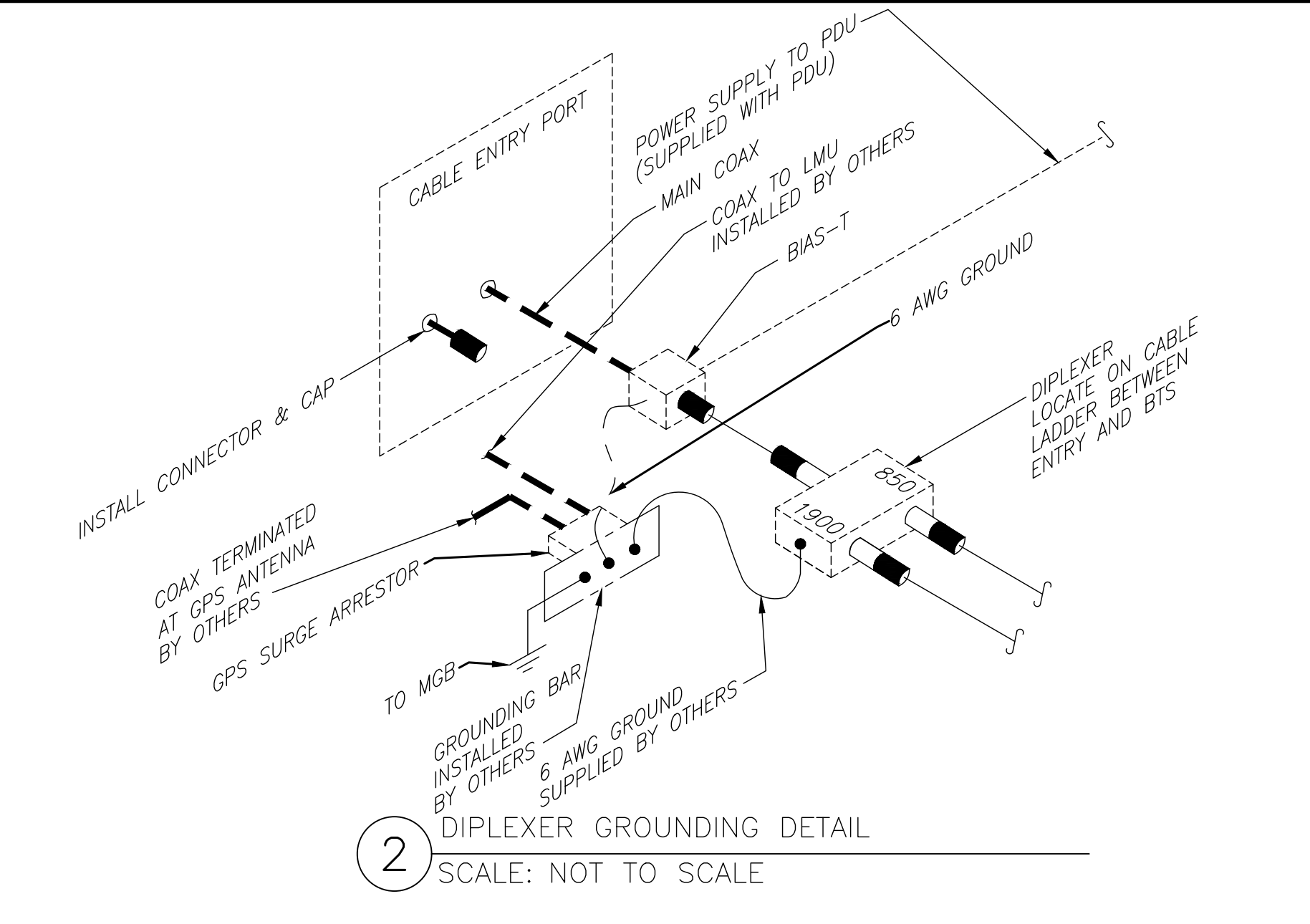
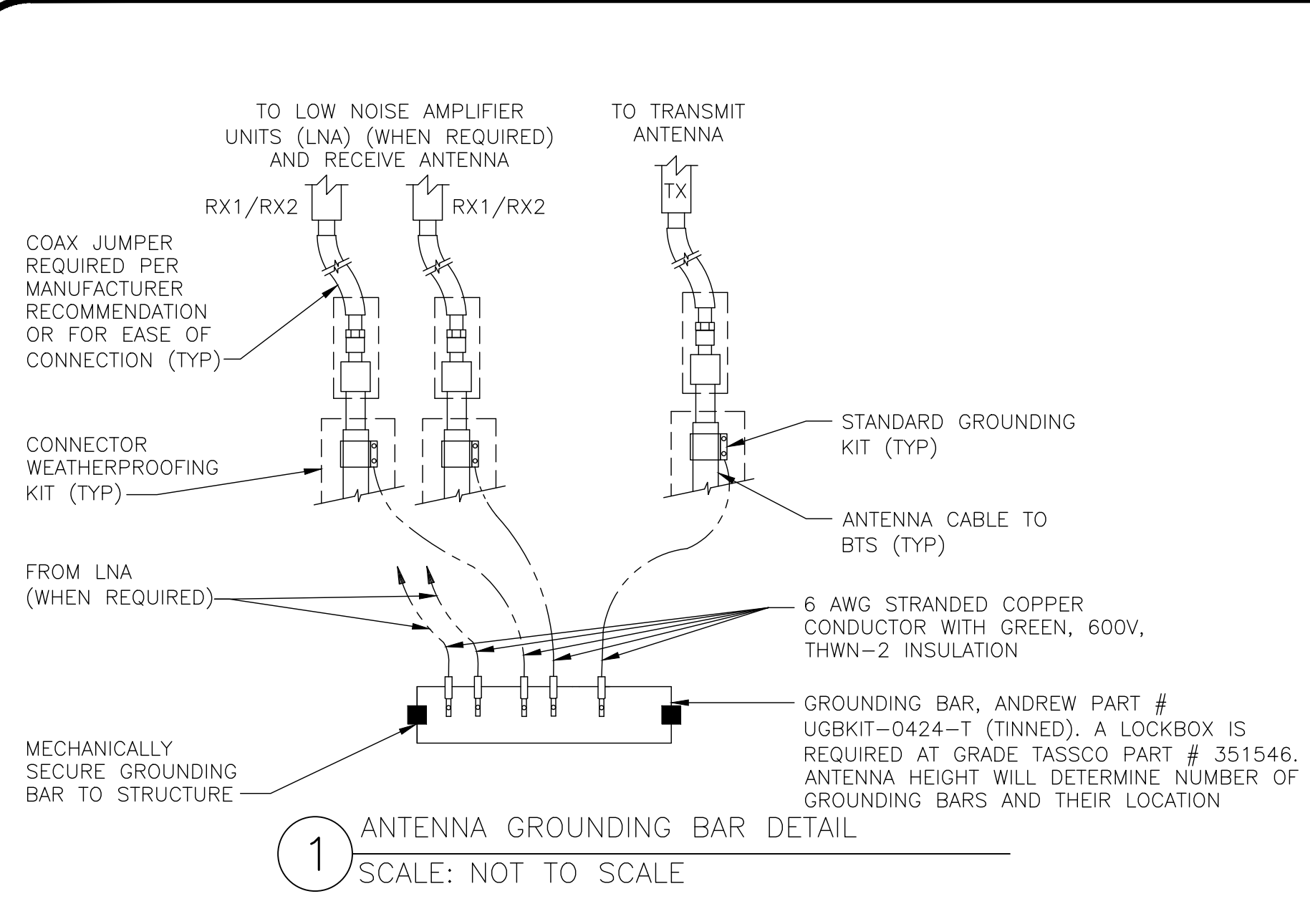
EXISTING 90'-0" SELF
SUPPORT TOWER WITH
RADOME

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
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L	09/08/2023	CRM	FOR ZONING	ES

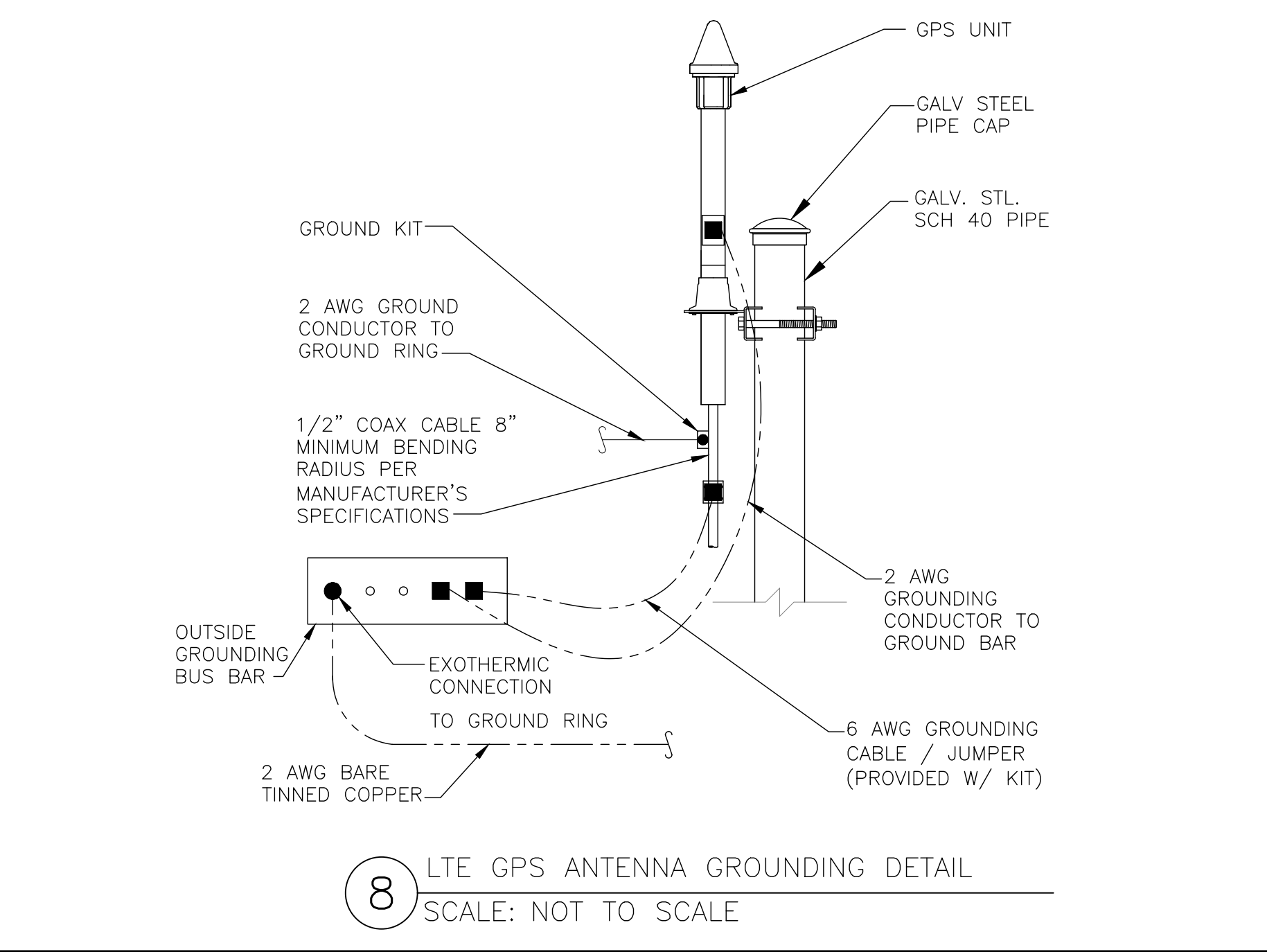
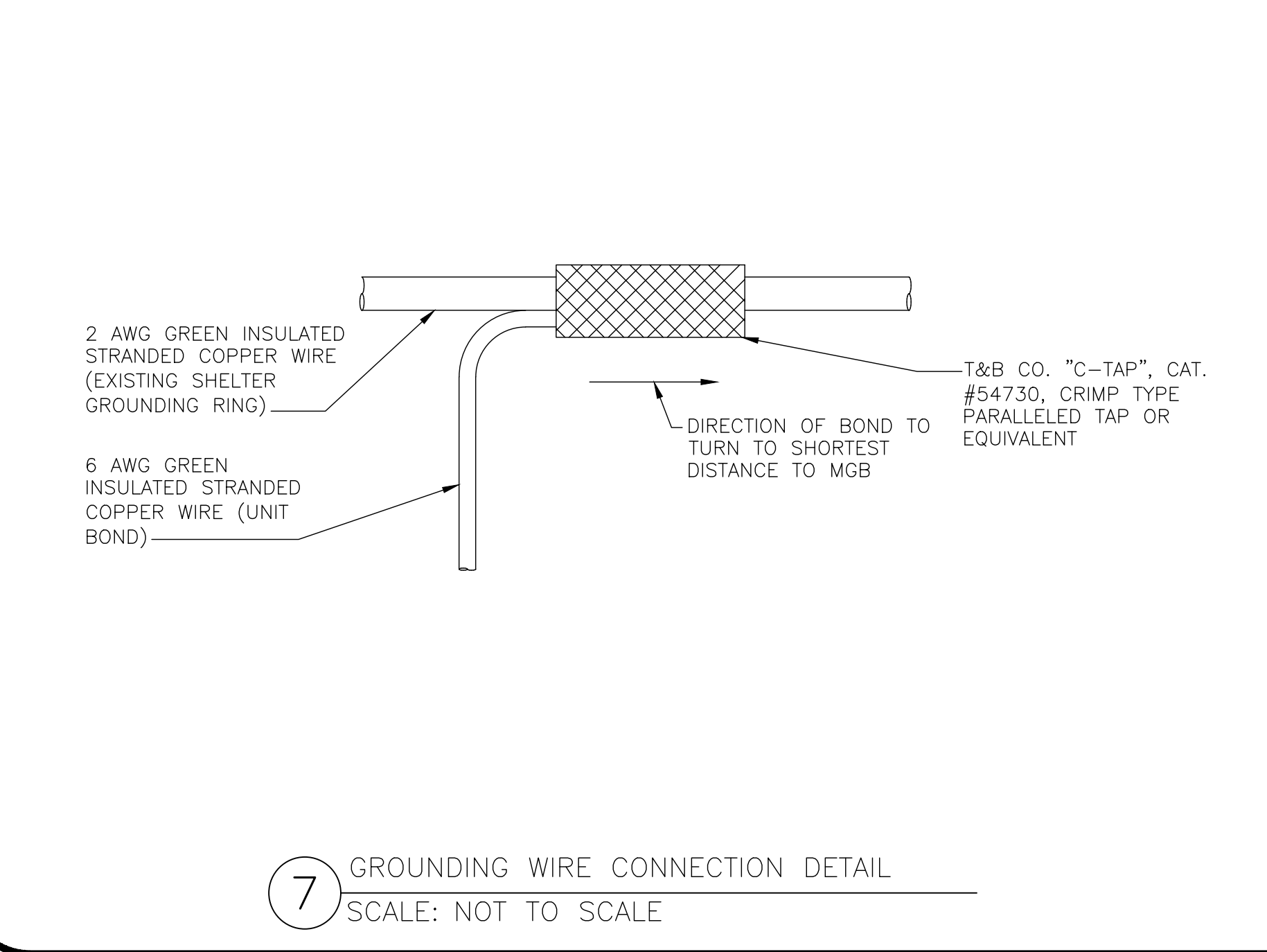


SHEET NUMBER: **G-2** REVISION: **L**



NOTE

1. A GEOTECHNICAL REPORT (LIST REPORT NAME OR NUMBER) WAS COMPLETED BY xxxx ON xx/xx/xx. THE CONTRACTOR SHALL REVIEW THE REPORT PRIOR TO BEGINNING ANY WORK ON-SITE.



AT&T SITE NUMBER:
GRANMI5943

750 PARK ST.
SAUGATUCK, MI 49453

EXISTING 90'-0" SELF SUPPORT TOWER WITH RADOME

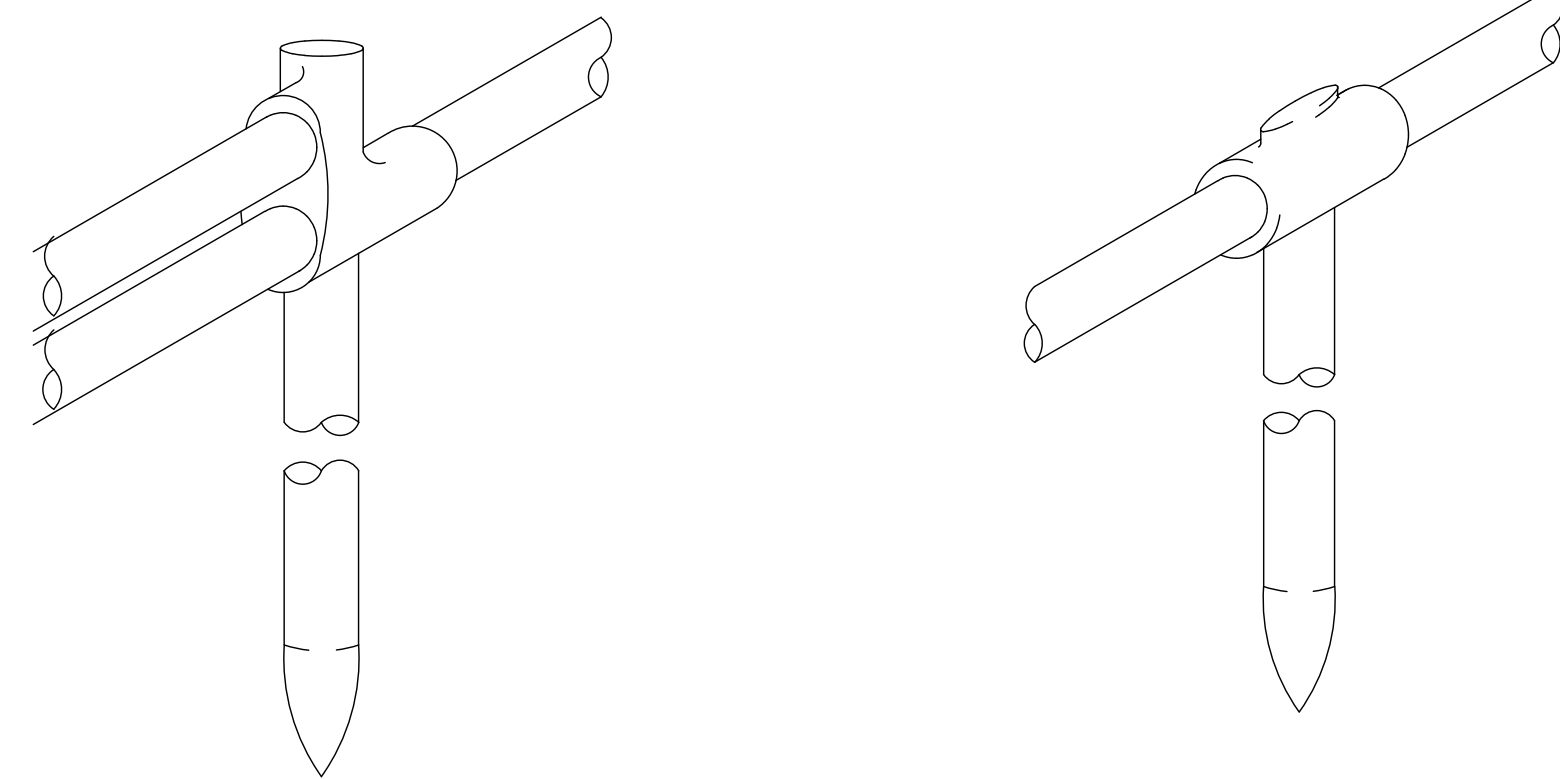
ISSUED FOR:

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STATE OF MICHIGAN
STEVEN P. SCHAUB
ENGINEER
License No. 6201060461
09/08/2023
ELECTRICAL

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SHEET NUMBER: **G-3** REVISION: **L**



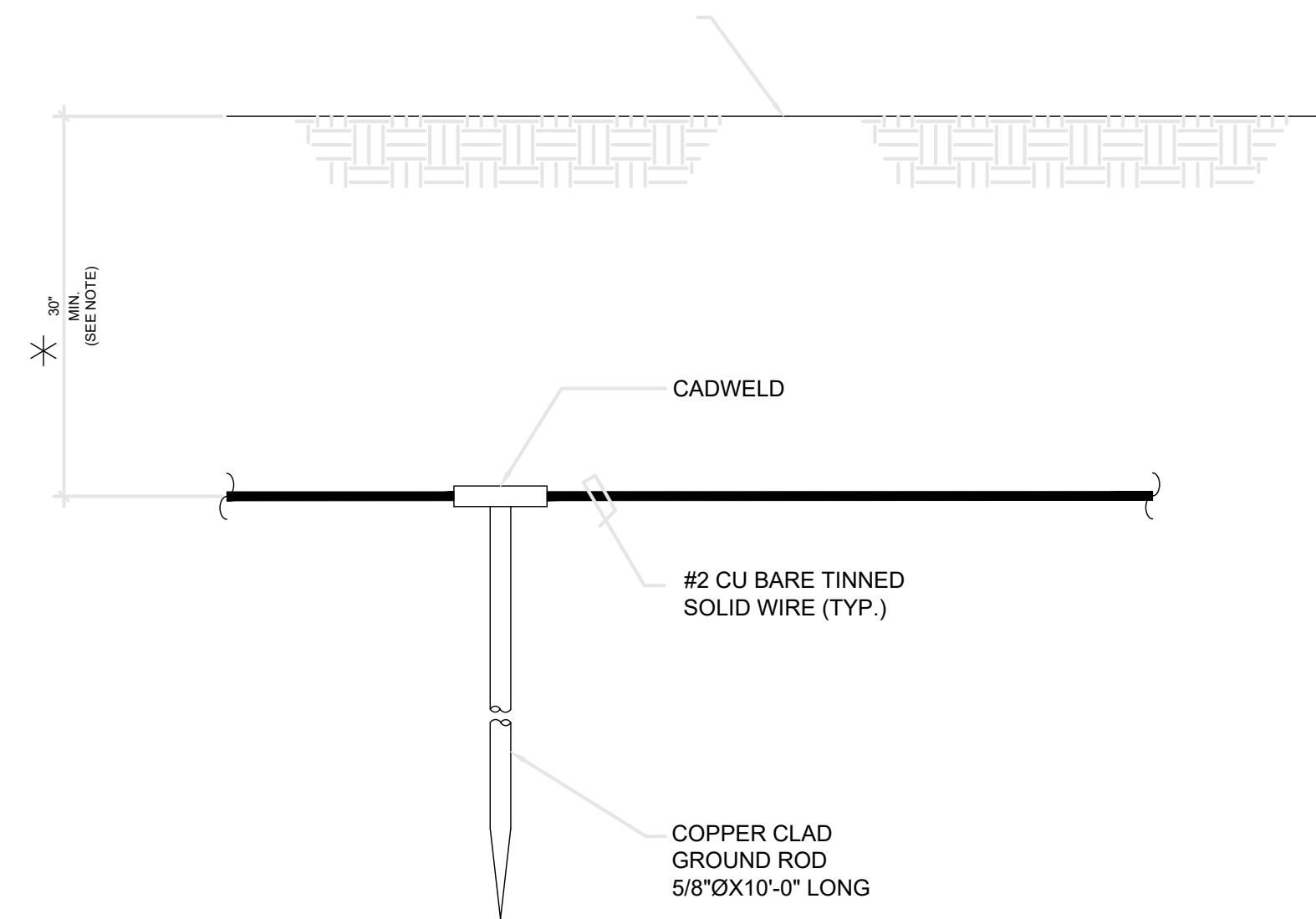
CADWELD TYPE NC
THERMOWELD TYPE
CR-17

DOUBLE CABLE TO
GROUND ROD

CADWELD TYPE GT
THERMOWELD TYPE CR-2

HORIZONTAL TO GROUND
ROD

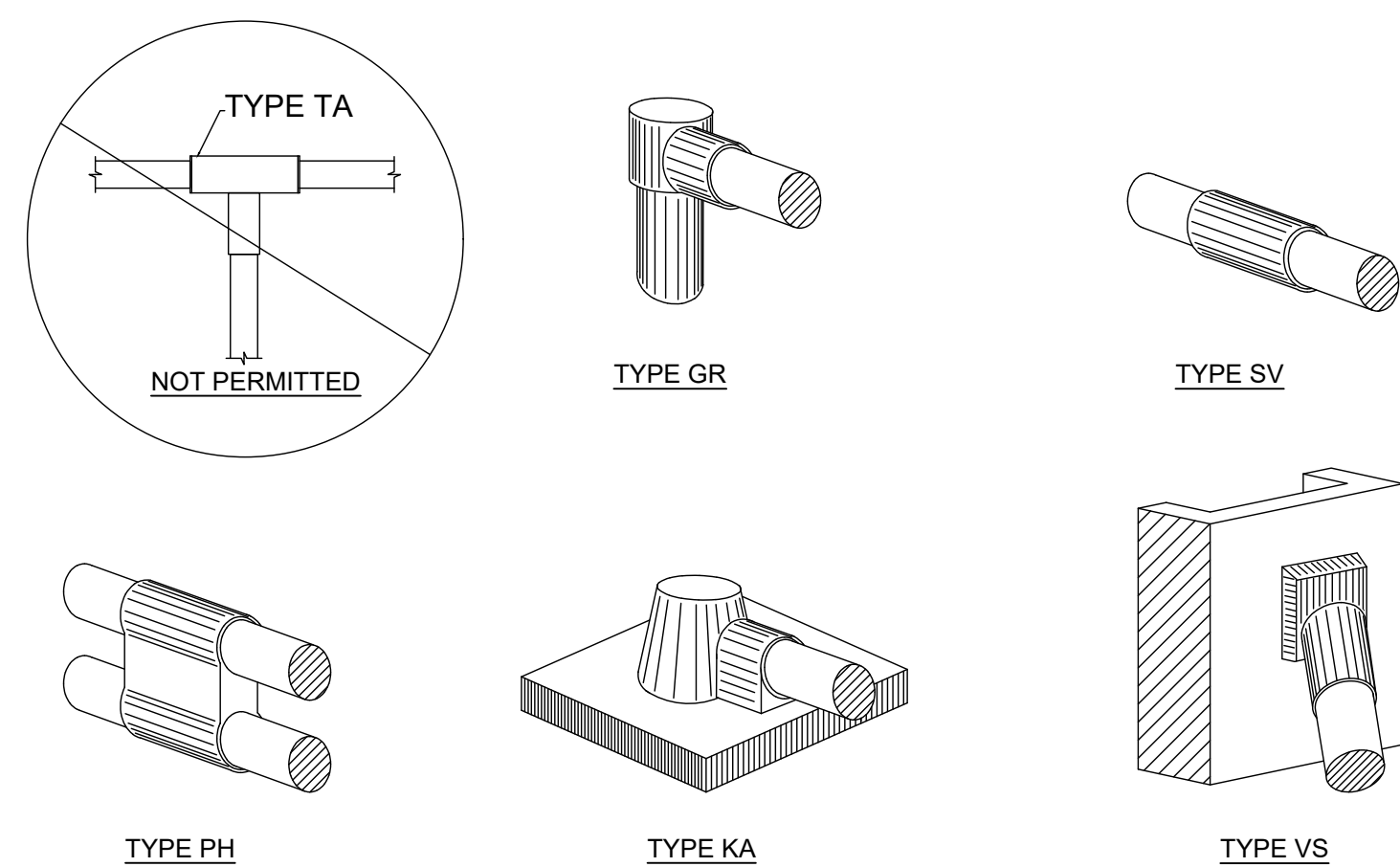
1 GROUND ROD
SCALE: NOT TO SCALE



* NOTE:
GROUND ROD SHALL BE MIN. 30" BELOW GRADE
OR 6" BELOW FROST LINE. (WHICH EVER IS
GREATER) AS PER N.E.C. ARTICLE 250-50(D)

2 GROUND ROD DETAIL
SCALE: NOT TO SCALE

3 DETAIL NOT USED
SCALE: NOT TO SCALE



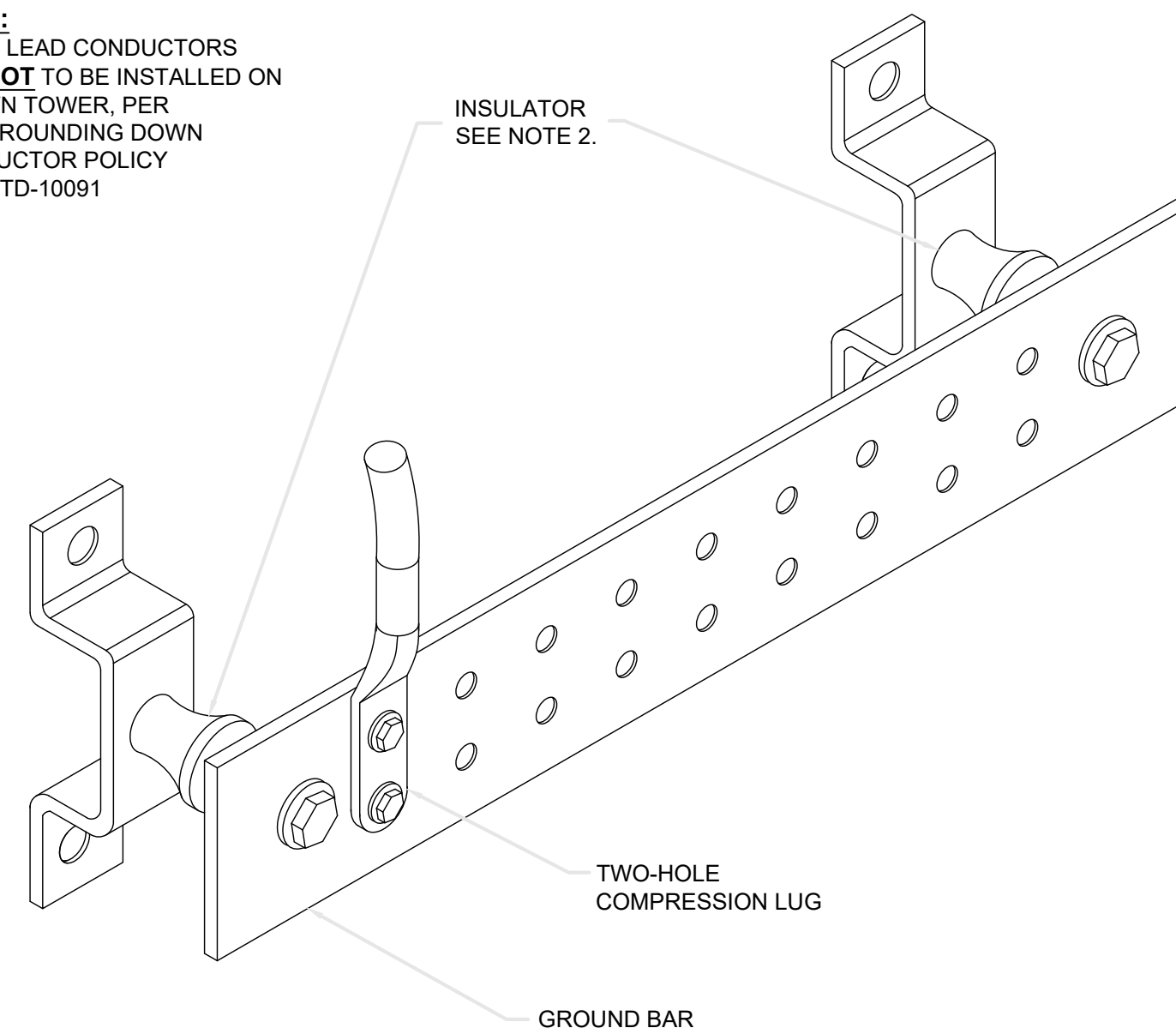
TYPE PH

TYPE KA

TYPE VS

4 CADWELD (TYP.)
SCALE: NOT TO SCALE

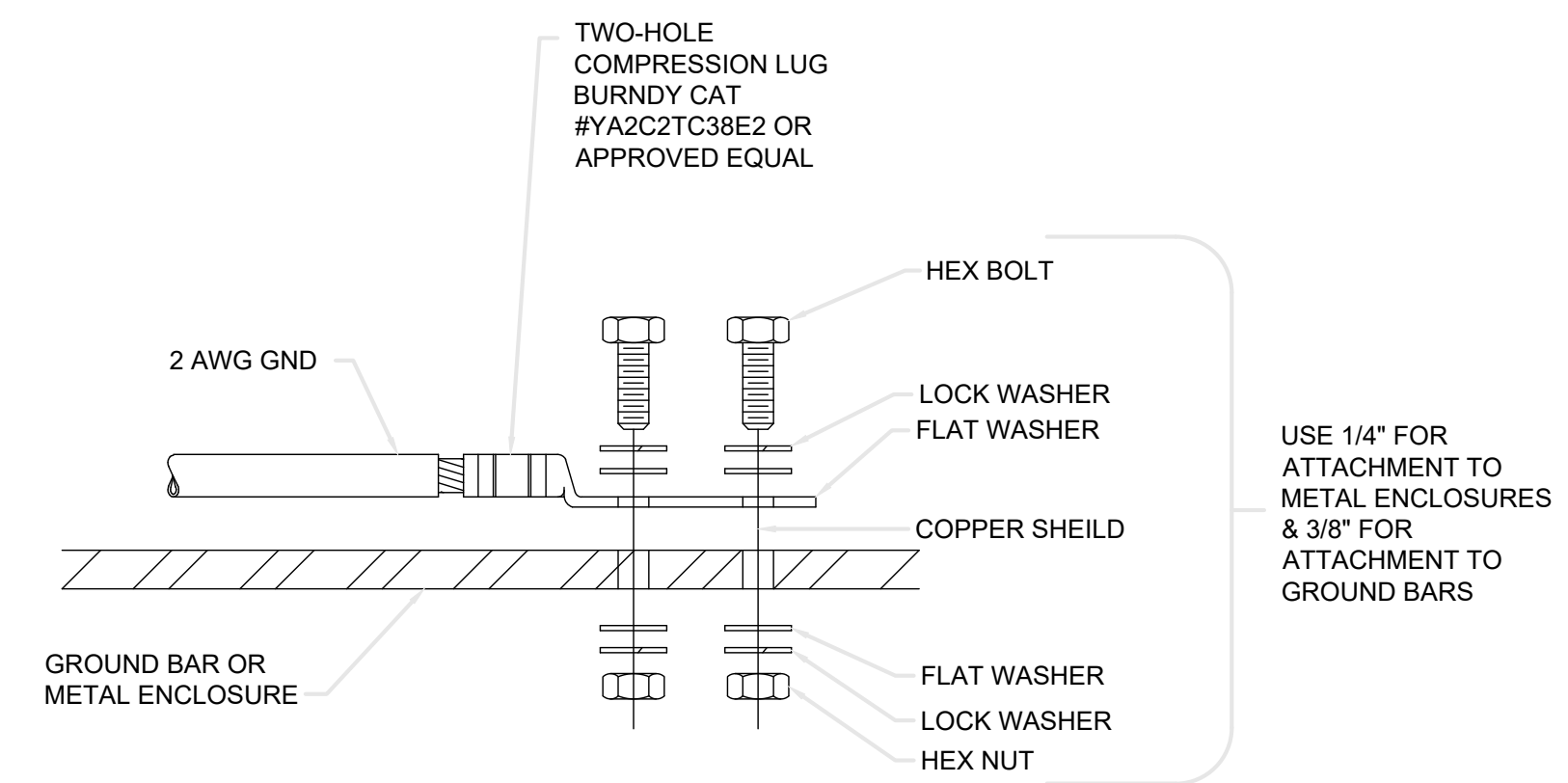
NOTE:
DOWN LEAD CONDUCTORS
ARE **NOT** TO BE INSTALLED ON
CROWN TOWER, PER
THE GROUNDING DOWN
CONDUCTOR POLICY
QAS-STD-10091



NOTES

1. SECURE TO INTERIOR OR EXTERIOR WALL w/ S.S. LAG HARGAR CAT # GBB-1442-G OR APPROVED EQUAL
2. OMIT INSULATOR WHEN MOUNTING TO TOWER STEEL OR PLATFORM STEEL. USE INSULATORS WHEN ATTACHING TO BUILDINGS OR SHELTERS

5 GROUND BAR
SCALE: NOT TO SCALE



INSTALLATION NOTES:

1. BOLTS, WASHERS, AND NUTS SHALL BE STAINLESS STEEL.
2. SELECT BOLT LENGTH TO PROVIDE A MINIMUM OF TWO EXPOSED THREADS.
3. BURNISH MOUNTING SURFACE TO REMOVE PAINT IN THE AREA OF LUG CONTACT.
4. APPLY COPPER-SHIELD COMPOUND TO MATING SURFACE OF LUG AND WIPE CLEAN EXCESS COMPOUND.
5. ALL METAL ELECTRICAL EQUIPMENT SHALL BE EXTERNALLY GROUNDED TO THE TOWER EGR. (PAINTED METAL SURFACES MUST HAVE SMALL SECTION OF PAINT REMOVED BEFORE INSTALLATION, AND SHALL BE SPRAYED LIGHTLY WITH CLEAR COAT LACQUER FINISH).

6 GROUNDING TO FLAT SURFACE (TYP.)
SCALE: NOT TO SCALE



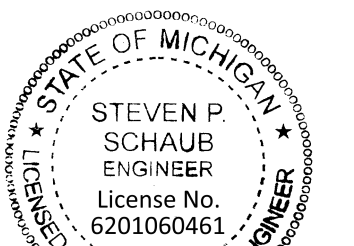
AT&T SITE NUMBER:
GRANMI5943

750 PARK ST.
SAUGATUCK, MI 49453

EXISTING 90'-0" SELF
SUPPORT TOWER WITH
RADOME

ISSUED FOR:

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09/08/2023

ELECTRICAL

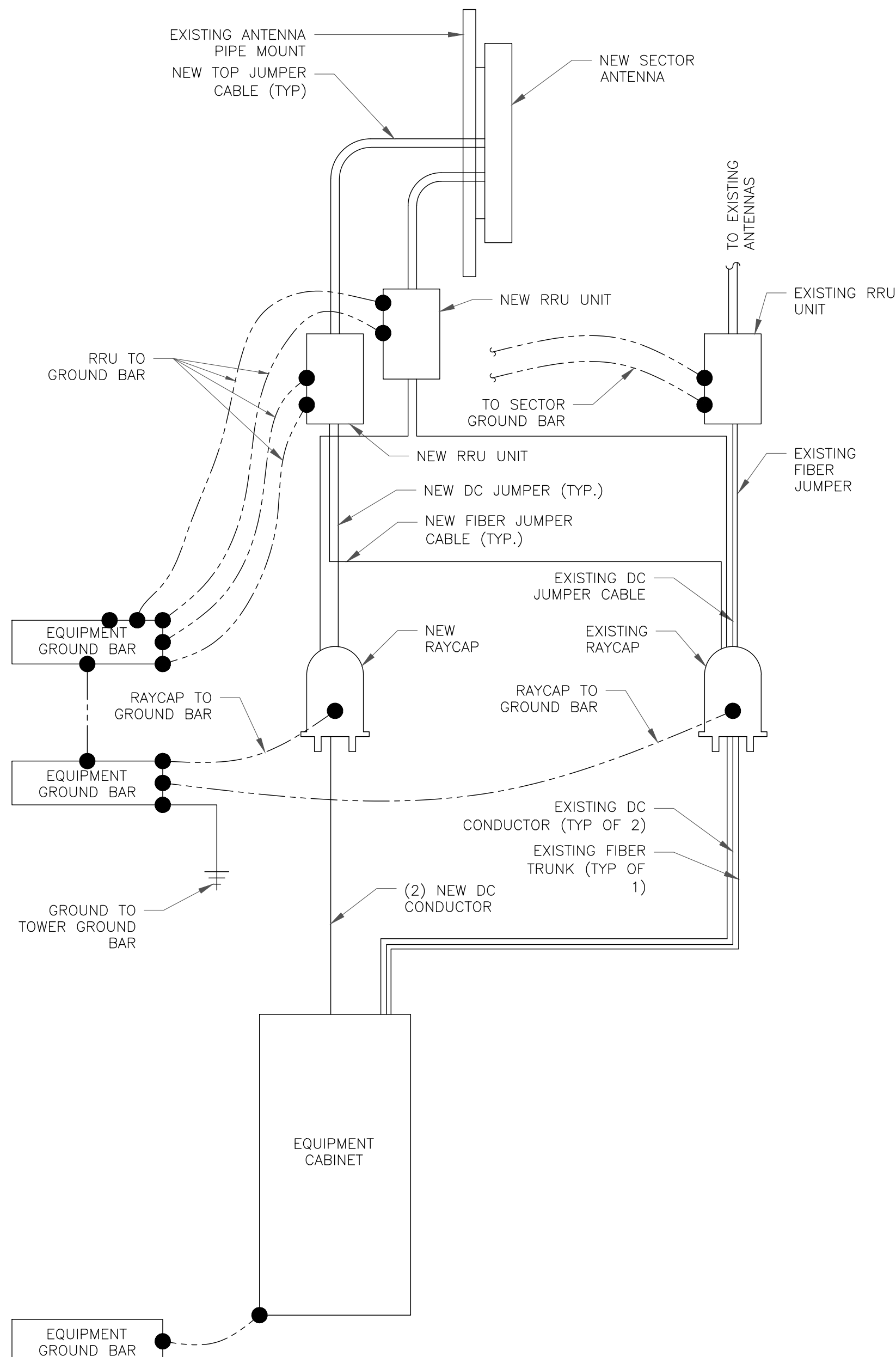
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SHEET NUMBER:

G-4

REVISION:

L



1 GROUNDING SCHEMATIC
SCALE: NOT TO SCALE

1. CONTRACTOR SHALL HAVE A COMPLETE UNDERSTANDING OF THE CONTENTS OF AT&T STANDARD TP-76416.
2. ALL INSTALLATIONS SHALL BE FIELD VERIFIED.
3. ALL GROUNDING CONDUCTORS FROM PROPOSED AT&T MOBILITY EQUIPMENT TO GROUND BARS SHALL BE 6 AWG COPPER TINNED UNLESS NOTED OTHERWISE.
4. ALL GROUNDING CONDUCTORS FROM PROPOSED AT&T MOBILITY EQUIPMENT SUPPORT AND MOUNTING STRUCTURES TO GROUND BARS SHALL BE 2 AWG COPPER TINNED UNLESS NOTED OTHERWISE.
5. ALL GROUNDING CONDUCTORS SHALL PROVIDE A STRAIGHT DOWNWARD PATH TO GROUND WITH GRADUAL BEND AS REQUIRED. GROUND WIRES SHALL NOT BE LOOPED OR SHARPLY BENT.
6. KOPR-SHIELD ANTI-OXIDATION COMPOUND SHALL BE USED ON ALL COMPRESSION GROUNDING CONNECTIONS.
7. ALL EXOTHERMIC CONNECTIONS SHALL BE INSTALLED UTILIZING THE PROPER CONNECTION/MOLD AND MATERIALS FOR THE PARTICULAR APPLICATION.
8. ALL BOLTED GROUNDING CONNECTIONS SHALL BE INSTALLED WITH AN EXTERNAL TOOTHED LOCK WASHER. GROUNDING BUS BARS MAY HAVE PRE-PUNCHED HOLES OR TAPPED HOLES. ALL HARDWARE SHALL BE SECURITY TORQUE HARDWARE 3/8" STAINLESS STEEL.
9. EXTERNAL GROUNDING CONDUCTOR SHALL NOT BE INSTALLED OR ROUTED THROUGH HOLES IN ANY METAL OBJECTS, CONDUITS, OR SUPPORTS TO PRECLUDE ESTABLISHING A MAGNETIC CHOKE POINT.
10. PLASTIC CLIPS SHALL BE USED TO FASTEN AND SUPPORT GROUNDING CONDUCTORS. FERROUS METAL CLIPS WHICH COMPLETELY SURROUND THE GROUNDING CONDUCTOR SHALL NOT BE USED.
11. CONTRACTOR SHALL REPAIR/PLACE EXISTING GROUNDING SYSTEM COMPONENTS DAMAGED DURING CONSTRUCTION AT THE CONTRACTORS EXPENSE.
12. GROUNDING IS SHOWN DIAGRAMMATICALLY ONLY.
13. CONTRACTOR SHALL PROVIDE STRAIN-RELIEF AND CABLE SUPPORTS FOR ALL CABLE ASSEMBLIES, COAX CABLES, AND RET CONTROL CABLES. CABLE STRAIN-RELIEFS AND CABLE SUPPORTS SHALL BE APPROVED FOR THE PURPOSE. INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
14. CONTRACTOR SHALL GROUND ALL EQUIPMENT, INCLUDING ANTENNAS, RET MOTORS, TMA'S, COAX CABLES, AND RET CONTROL CABLES AS A COMPLETE SYSTEM. GROUNDING SHALL BE EXECUTED BY QUALIFIED WIREMEN IN COMPLIANCE WITH MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.

2 GENERAL GROUNDING NOTES
SCALE: NOT TO SCALE

NOTE:
NO AC OR DC POWER WORK IS WITHIN THE SCOPE OF THESE DRAWINGS. HOWEVER, SOME AC OR DC POWER CONSTRUCTION MIGHT BE ENCOUNTERED. IF SO REQUIRED, PRIOR TO ANY CONSTRUCTION, IT IS THE ELECTRICAL CONTRACTORS RESPONSIBILITY TO VERIFY THE MAXIMUM DEMAND LOAD AND THAT NO POSSIBLE OVERLOADS WOULD BE INCURRED WITH ANY AC OR DC ELECTRICAL WORK OF THE EXISTING PANELS OR CONDUCTORS. IF OVERLOADS ARE ANTICIPATED, CONTACT ERICSSON BEFORE PROCEEDING WITH ANY WORK. ALL AC OR DC WORK DEPICTED WITHIN THESE DRAWINGS IS DIAGRAMMATICAL AND FOR REFERENCE PURPOSES ONLY. AC AND DC ELECTRICAL SCOPE OF WORK IS BY ERICSSON.



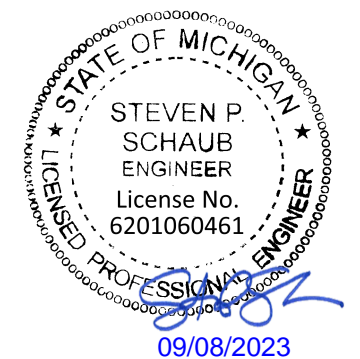
AT&T SITE NUMBER:
GRANMI5943

750 PARK ST.
SAUGATUCK, MI 49453

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ELECTRICAL

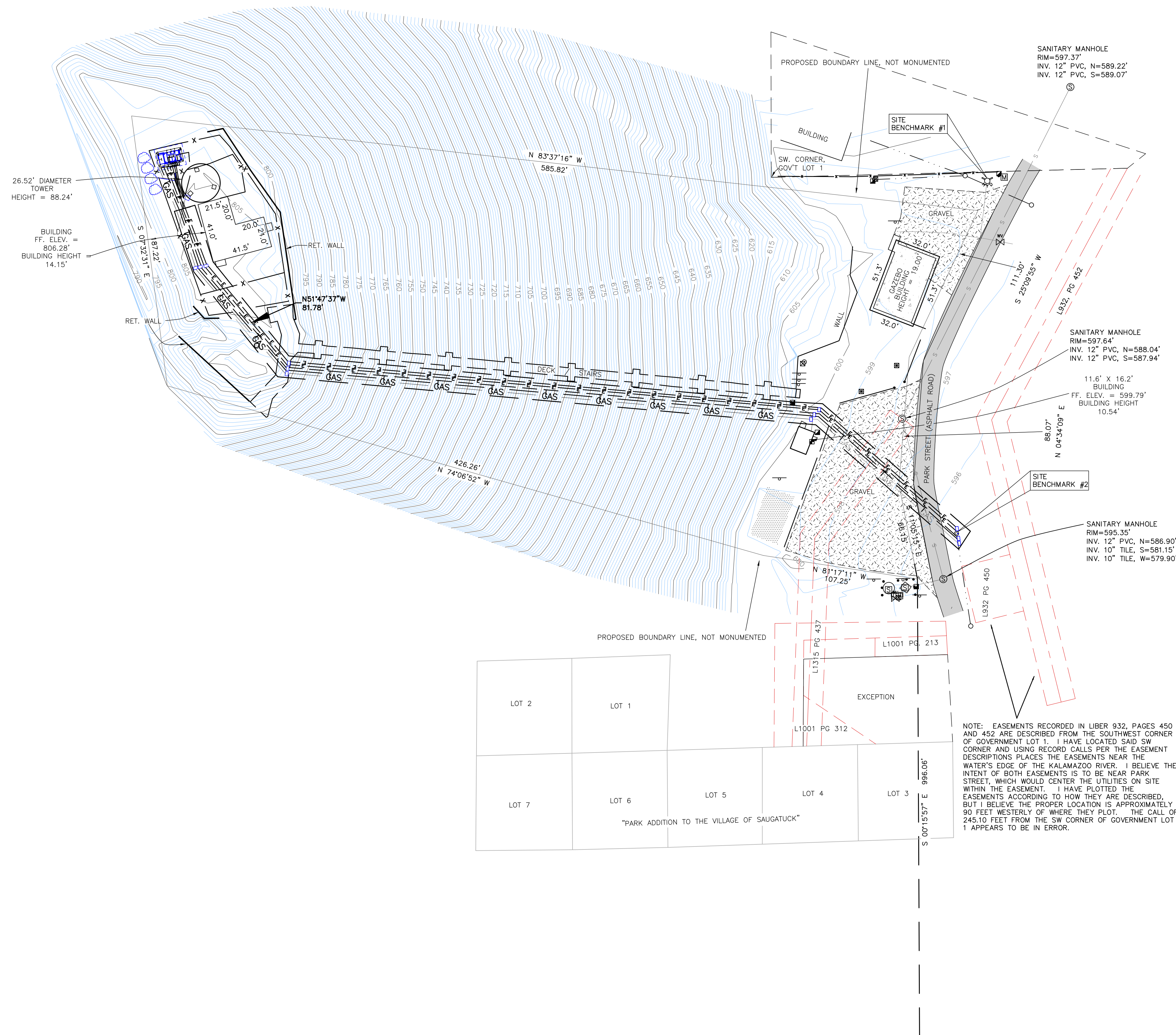
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SHEET NUMBER:

G-5

REVISION:

L



1 SURVEY
SCALE: 3/4"=1'-0" (FULL SIZE)
3/8"=1'-0" (11x17)



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SHEET NUMBER: **SUR.** REVISION: **L**



16025 NORTHLAND DRIVE
SOUTHFIELD, MI 48075



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SHEET NUMBER: **A.O.D** REVISION: **L**

AREA OF VEGETATIVE DISTURBANCE
- 40± SQ. FT. TOTAL

AREA OF VEGETATIVE DISTURBANCE
- 120± SQ. FT. TOTAL

AREA OF VEGETATIVE DISTURBANCE
- 750± SQ. FT. TOTAL

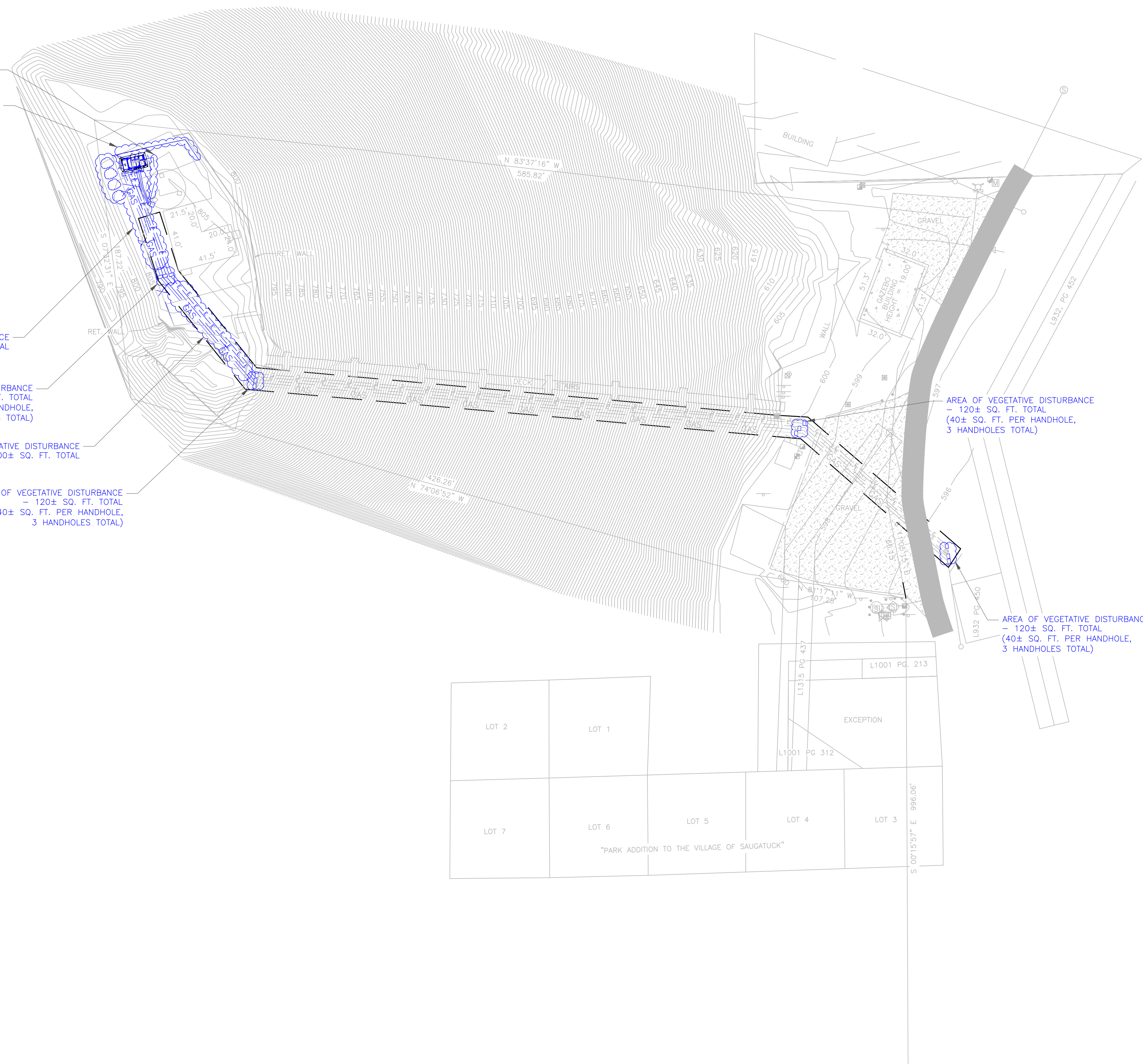
AREA OF VEGETATIVE DISTURBANCE
- 120± SQ. FT. TOTAL
(40± SQ. FT. PER HANDHOLE,
3 HANDHOLES TOTAL)

AREA OF VEGETATIVE DISTURBANCE
- 500± SQ. FT. TOTAL

AREA OF VEGETATIVE DISTURBANCE
- 120± SQ. FT. TOTAL
(40± SQ. FT. PER HANDHOLE,
3 HANDHOLES TOTAL)

AREA OF VEGETATIVE DISTURBANCE
- 120± SQ. FT. TOTAL
(40± SQ. FT. PER HANDHOLE,
3 HANDHOLES TOTAL)

AREA OF VEGETATIVE DISTURBANCE
- 120± SQ. FT. TOTAL
(40± SQ. FT. PER HANDHOLE,
3 HANDHOLES TOTAL)



1 AREA OF VEGETATIVE DISTURBANCE
SCALE: 3/4"=1'-0" (FULL SIZE)
3/8"=1'-0" (11x17)

Exhibit "A"

The City of Saugatuck has identified improving cellular telecommunications infrastructure as a top priority for fostering economic growth and improving public safety in the community.

Saugatuck's intention is to return the abandoned radar facility it purchased in 1969 to productive use without changing the outward appearance of the radar tower or the altering the appearance of the historic harbor community or its beachfront.

Saugatuck's popular Oval Beach attracts tens of thousands of visitors every year but suffers from poor or non-existent cellular coverage due to the environmentally sensitive freshwater dunes surrounding the beach and nearshore waters of Lake Michigan. There have been several public safety incidents along this section of lakeshore and emergency response activities have been hampered or delayed by the lack of cellular telecommunications infrastructure.

Several public and private entities have used the surplus radar tower for telecommunication purposes since the city purchased the facility and the city is working with AT&T on plans to conceal modern cellular antennas inside the radar tower's dome. In addition to improving overall cellular coverage for the public, the AT&T cellular equipment incorporates FirstNet technology which is a nationwide communications network created specifically for public safety agencies.



City Council Agenda Item Report

FROM: Ryan Heise

MEETING DATE: 9/11/23

SUBJECT: Sign request- Rotary Club for Allegan County Cup Mini-Golf Tournament

DESCRIPTION:

City Staff received a request to place a banner at the Pallet Sign for a Saugatuck/Douglas Rotary Event; "Allegan County Cup Mini-Golf Tournament."

BUDGET ACTION REQUIRED:

NA

COMMITTEE/COMMISSION REVIEW

NA

LEGAL REVIEW:

None

SAMPLE MOTION:

Move to allow City staff approve the signage request from the Saugatuck Douglas Rotary Club.