

Detailed Design and Engineering Documents

Electronic Protection System Project Jey Oil Refining Company Of Esfahan

Employer:



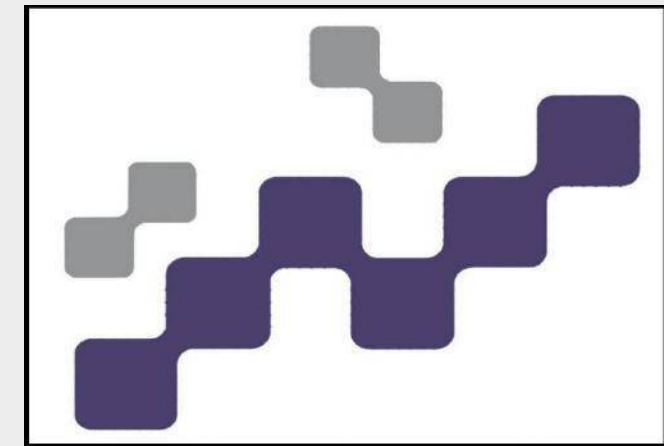
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Title	Contents	Page Number
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Introduction		1
Season First -A brief description of the project		6
Season Second - Map locating equipment.		9
List Of Icons		10
Overview		12
Plane A-Building center		14
Plane B-Distribution		29
Plane C-Production		42
Season Third- Plumbing and cable route map		52
Plane A-Building center		53
Plane B-Distribution		66
Plane C-Production		77
Season Fourth- Diagram Communication Equipment		85
Diagram of the entire project at a glance		86
Diagram Communication Equipment		89
Diagram Power Equipment		93
Diagram Earth Equipment		97
Season Fifth- Interior design and server room monitoring.		101
Season Sixth- Locating the equipment inside the racks ,boxes and cabinets		105
Locating The Equipment Inside The Rack		106
Locating equipment in boxes		109
Locating equipment in Cabinets		111
Season Seventh -Pixel/Per Meter		114
Season Eighth- Map of rig construction details		167
Base mast construction detail map		168
6 meter mast construction detail map		174
10meter mast construction detail map		176
mast foundation construction detail map		180
Season Nineth -making picket detail map		182
Season Tenth -Installation		187
Season Eleventh -Earth System Details		206
Season Twelfth -Drilling channel details Map		208
Season Thirteenth -Access Hatches Detail Map		210
Season Fourteenth -map detail making the switch box		212

Title	Page Number
Season Fifteenth -Calculations	219
List computing and fiber optic cable networks	220
List of computing power cable	222
Calculate the power consumption of the system	224

Introduction

مقدمه

ضرورت استفاده از سیستم های دوربین مدار بسته

اهمیت استفاده از دوربین مدار بسته به اندازه ای است که در طول دو دهه گذشته این سوال در ذهن بسیاری از کاربران سیستمهای نظارت تصویری بوجود آمده است که چگونه تا پیش از این از این سیستم استفاده نمی کردند علاوه بر آن در هنگام وقوع جرم و یافتن مجرمین وجود يك سیستم نظارت تصویری مناسب که بطور اصولی طراحی شده باشد مزایای بسیاری را برای محافظت از داراییها، داشتن مکانی امن و مدیریت موثر منزل یا محل کار خواهد داشت. در ذیل 11 مورد از ویژگیهای دوربین مدار بسته که توجیه سرمایه گذاری برای نصب این سیستم را به همراه دارد را بررسی می کنیم:

1- ترساندن مجرمین

یکی از مهمترین مزایای دوربین مدار بسته ترساندن مجرمین از انجام جرم است. دوربین مدار بستههایی که در محلهای مناسب نصب شده باشند، مجرم احتمالی را بر آن می دارد تا از انجام جرم دست بردارد و محل دیگری که ضریب امنیتی پایین تری دارد را برای انجام جرم انتخاب نماید.

2- جلوگیری از سرقت

طبق مطالعات انجام شده در صنایع کوچک، این مشاغل بطور میانگین سالانه 50 هزار دلار متضرر می شوند، و با توجه به شرایط حاضر اقتصادی که در آن امکان جابجایی محصولات به سرقت رفته به آسانی ممکن است، احتمال خطر سرقتهای درونی و بیرونی به سرعت در حال افزایش است. ثابت شده است که يك سیستم دوربین مدار بسته به راحتی این آمار را به نصف کاهش می دهد.

3- افزایش بهره وری

بهره وری نیروی کار بزرگترین دغدغه ای است که امروزه تجارت و صنعت با آن مواجه است. سیستمهای نظارت تصویری کمک می کنند تا حتی در هنگامی که شما (بعنوان مدیر مجموعه) در محل حضور ندارید، افراد بهترین رفتار کاری را از خود نشان دهند و همچنین به مدیران این امکان را می دهد تا عادات و رفتارهای کاری را بصورت دوره ای و در زمانهای معین مشاهده و بررسی کنند.

4- کاهش مسئولیت و بدهی

بسیاری از مجرمین به دنبال کسب سود از طریق ایجاد ادعاهای دروغین علیه شرکتهای می باشند. بدون داشتن شواهد برای دفاع از خود مسئولین این شرکتهای ممکن است گاهی محکوم به پرداخت هزینههای گزافی شوند. دوربین مدار بسته راهی موثر برای جلوگیری از این وقایع به شمار رفته و علیه چنین ادعاهایی مفید خواهد بود. (به یاد داشته باشید که بسیاری از دادرخواستها توسط کارکنانی به اثبات می رسند که رویدادی را در خارج از محدوده نظارت تصویری شما گزارش می کنند. توصیه می شود که علاوه بر دوربین مدار بستههایی که بصورت آشکار نصب می شوند، دوربین مدار بستههایی نیز بصورت ناپیدا و مخفی از دید افراد نصب شود تا افراد مکان امنی را برای تجمعات و یا انجام جرم پیدا نکنند و در هر نقطه قابل رویت باشند).

5- محافظت از اطلاعات

رقبای شما همواره حاضرند هزینه‌های بالایی را برای اشراف و آگاهی از اسرار شرکت شما بپردازند. دوربین‌هایی که با استراتژی دقیق نصب شده باشند از دسترسی آنها و همچنین قصد آنها برای سرقت اطلاعات شما جلوگیری می‌کنند.

6- مدیریت از راه دور

بسیاری از سیستم‌های امنیتی تصویری مجهز به نرم افزارهایی هستند که قادرند تاسیسات و اماکن متعددی را از یک نقطه رؤیت کنند. چنین قابلیت‌هایی هزینه تجهیزات و هزینه‌های اضافی مدیریتی شما را بطور قابل ملاحظه‌ای کاهش داده و به مدیران این امکان را می‌دهد تا علی‌رغم درگیری‌های زمانی و مکانی بر کل محیط کار خود نظارت نمایند.

7- شناسایی بهتر مشتریان

بسیاری از مشاغل کوچک از سیستم نظارت تصویری خود به منظور مطالعه عادات مشتریهایشان، بهینه‌سازی مسیرهای تردد در فروشگاه، تغییر مکان مناسب محصولات و اطمینان از عادات مثبت مشتری استفاده می‌کنند.

8- ساده سازی عملیات

نظارت تصویری معمولاً در کارخانجات، اماکن تولیدی و اجرایی جهت مشاهده و نظارت تجهیزات و شناسایی سریع مشکلات که ممکن است تأخیرات یا دشواریهایی را برای روند تولید به همراه داشته باشد، به کار می‌رود. همچنین بعنوان چشم بیداری برای ایجاد تأثیر مثبت در روند تولید و حصول اطمینان از تجهیز مناسب عوامل تولید در محیط کار به کار می‌رود.

9- معتبر ساختن آلارم‌ها

صاحبان مشاغل و مدیران تمایل ندارند تا چندین ساعت از استراحت خود را وقف پاسخگویی به آلارم‌های اشتباهی که در محیط کار بوجود آمده به نمایند. به وسیله یک سیستم ویدئویی شبکه‌ای، معتبر سازی چنین آلارم‌هایی تنها یک کلیک ماوس است و آنگاه می‌توان به استراحت، تفریح و یا مسافرت پرداخت.

10- آرامش خاطر

مدیران مشاغل و صاحبان منازل در نهایت هر امر به دنبال آرامش خاطری هستند که در نتیجه محافظت از دارایی‌هایشان و تأمین محیط امن و مطمئن برای کارکنان، دوستان و خانواده‌شان به دست می‌آید. و اینکه در هنگام وقوع حوادث احتمالی قادر باشند تا فرد یا افراد متخلف و مقصر را به مراجع قضایی معرفی کنند. تحقق این امر تنها توسط یک سیستم نظارت تصویری میسر خواهد شد.

11- ایجاد پرستیژ کاری

نصب یک سیستم دوربین مدار بسته در محل کار و منزل شما چیزی است که مایه مباهات شما خواهد بود و وجهه شما را نزد دوستان، خانواده، کارکنان و مشتریان‌تان تغییر خواهد داد. آنها نیز همانند شما از توانایی شما برای نظارت منزل یا محل کارتان از راه دور که از سراسر جهان نیز قابل دسترسی است، متحیر خواهند شد



تاریخچه پالایشگاه نفت جی:

در راستای تحقق سیاستها و اهداف دولت جمهوری اسلامی ایران، شرکت پالایش نفت جی در سال 1382 با هدف تولید انواع قیر تأسیس گردید. پالایش نفت جی بزرگترین واحد تولید کننده قیر در منطقه خاورمیانه است " کیفیت برتر محصولات و حفظ و توسعه پایدار زیست محیطی " از همان ابتدا بعنوان خط مشی و چراغ راه انتخاب تجهیزات و فن آوری های مورد نیاز و مبنای انتخاب تامین کنندگان خارجی و داخلی قرار گرفت تا بتوان ضمن حفظ محیط زیست محصولی با کیفیت بالا که شایسته مشتریانمان باشد تولید و ارائه نماییم.



از ویژگیهای بارز این شرکت تنوع محصولات تولیدی آن می باشد که این امکان را برای مشتری فراهم می آورد با توجه به شرایط آب و هوایی و نوع کاربری محصول، محصول موردنیاز خود را خریداری نمایند. بیش از 70% تولیدات پالایش نفت جی صادر می گردد.

بمنظور توجه به نیازهای گروههای ذینفع این شرکت نسبت به توسعه و ارتقاء سیستم مدیریت

کیفیت (ISO 9001 : 2000) به الزامات خاص سیستم های مدیریت کیفیت در صنایع نفت، پتروشیمی و گاز

(ISO/TS 29001 : 2003) و یکپارچه سازی آن با مدیریت زیست محیطی (ISO 14001 2004)، ایمنی و بهداشت

حرفه ای (OHSAS 18001 : 1999) و مدیریت کنترل کیفیت آزمایشگاه بر اساس استاندارد- (ISO/IEC

(17025:2005 و همچنین دارای پروانه استاندارد برای انواع مختلف قیرهای جامد و محلول اقدام نموده و در این راستا موارد زیر را بعنوان خط مشی سیستم مدیریت یکپارچه خود تعیین نموده است.



- ارتقاء سطح رضایت مندی مشتریان و طرفهای ذینفع
- حذف و کاهش ریسکها و مخاطرات ناشی از فعالیتهای تا حد قابل تحمل
- ارتقاء سطح کیفیت محصولات، کاهش هزینههای تولید، اصلاح فرآیندها، استفاده بهینه از منابع و تکنولوژی و افزایش بهره‌وری
- جلوگیری از ایجاد آلودگیهای زیست محیطی
- رعایت استانداردها و الزامات اعلام شده از طرف مشتریان و سایر مراجع قانونگذار
- افزایش آگاهی کارکنان به منظور انجام بهینه فعالیتهای و اطلاع رسانی عمومی بمنظور استفاده بهینه از محصولات
- فراهم نمودن زمینه مشارکت کارکنان و ارتقاء سطح آگاهی و دانش آنها بمنظور نهادینه نمودن بهبود مستمر در کلیه فرایندها

این شرکت با بکارگیری منابع و نیروهای متخصص خود توانسته است بیش از 45٪ تولید قیر کل کشور را به خود اختصاص دهد. از عمده‌ترین اهداف این شرکت، تامین نیازهای داخل کشور برابر با استانداردهای روز دنیا و همچنین حضور موفق در بازارهای منطقه و جهان و عرضه محصولات با کیفیت برتر می باشد. این شرکت دارای سه واحد مجزای قیرسازی برای تولید انواع قیرهای دمیده و قیرهای محلول است و در طرح‌های توسعه خود، احداث واحدهای قیر امولسیون و قیر پلیمری در راستای استفاده بهینه از منابع پایه و همچنین کاهش آلاینده‌گی محیط را نیز بطور جدی دنبال می نماید. شرکت پالایش نفت جی جهت مظروف سازی قیر دارای کارخانه مجهز بشکه سازی و خطِ بشکه پُرگُن و بسته بندی قیر بشکل پُلی بَک نیز می باشد

ظرفیت اسمی تولید سالانه کارخانه ۱،۸۰۰،۰۰۰ تن می باشد

ظرفیت تولید قیرهای دمیده ۴۰،۰۰۰ بشکه در روز

ظرفیت تولید قیرهای محلول ۷،۱۰۰ بشکه در روز

ظرفیت ذخیره سازی در مجتمع قیرسازی نفت جی 500000 بشکه در روز

Season First - A brief description of the project

سیستم نظارت تصویری پالایشگاه نفت جی اصفهان

با توجه به نیاز های اعلام شده کارفرمای محترم و شناخت حساسیت ها و اولویت های امنیتی پالایشگاه طی بازدید تیم طراحی نقاط حساس شناسایی گردیده و ماحصل جلسات مختلف طرح پیش رو آماده گردید.

بر اساس این طرح در مجموع تعداد ۸۰ دوربین در نقاط حساس کارخانه در نظر گرفته شده .

تعداد ۴ عدد دوربین ۵ مگاپیکسل برای پوشش محوطه مناطق شمال ساختمان پورنر، ضلع شمال غربی انبار بشکه، ضلع غربی انبار دپو بخش فروش پالایشگاه، شمال منطقه باسکول بخش توزیع، قرار داده شده است. تعداد ۱۸ عدد دوربین ۳ مگاپیکسل برای پوشش مناطق شمالی ورودی، ورودی بخش توزیع، محوطه مخازن TK 2076-77-78-79-106، شمال منطقه باسکول بخش تولید، محوطه مخازن TK2055-56، ضلع شمال شرقی بخش تولید برای برج های تقطیر، ورودی انبار بخش تولید، قرار داده شده است. تعداد ۵ عدد دوربین ۳ مگاپیکسل نوع لنز ۹-۲۲ برای دید پلاک و حصار محوطه پیرامون در مناطق، درب ورودی بخش فروش، شمال ساختمان باسکول بخش توزیع، ضلع شمالی بخش تولید، ضلع شمال شرقی مخزن TK 2055، قرار داده شده است.

تعداد ۱۳ عدد دوربین ۲ مگاپیکسل ورودی بخش فروش، جنب جنوبی ساختمان مرکزی، جنب غربی ساختمان بشکه زنی، ساختمان بشکه زنی، جنب مخازن TK-20104, TK-2072-74، جنب شمالی غربی TANK-2052-ورودی محوطه بخش تولید قرار داده است .

تعداد ۱ عدد دوربین ۳۶۰ درجه ۴ لنز در ورودی ساختمان مرکزی قرار داده شده است.

تعداد ۲۱ عدد دوربین ۲۷۰ درجه ۳ لنز برای پوشش مناطق از قبیل جنب ساختمان توزیع کارت ورودی پالایشگاه، جنب جنوبی ساختمان نگهبانی، ضلع شمال شرقی و غربی ضلع جنوب شرقی ساختمان مرکزی، ضلع شمالی ساختمان بشکه زنی، جنب شمال غربی ساختمان تاسیسات بشکه زنی، سالن ساختمان پورنر، ضلع شمال محوطه بخش توزیع، ورودی به بخش توزیع، جنب ساختمان تزریق قیر، ضلع شمالی مخازن TK-20104-106، ضلع شرقی مخازن TK-2055-57،

ورودی بخش تولید، ضلع جنوبی بخش تولید، طبقه اول و همکف اداری، قرار داده شده است.

تعداد 18 عدد دوربین دام در داخل ساختمان های پالایشگاه با درخواست شرکت پالایش نفت جی قرار داده شده است، که مختصر و جزئیات آن در نقشه های جانمایی نشان داده شده است.

اتاق مانیتورینگ مجموعه با بهره گیری از 6 مانیتور صنعتی 50 اینچ روی دیوار و چهار مانیتور 19 اینچ روی میز و دو صفحه کلید کنترلی کیفیت مطلوبی برای مانیتورینگ لحظه به لحظه و نقطه به نقطه مجموعه را فراهم میکند.

همچنین برای روشن تر شدن جزئیات اتاق مانیتورینگ طرح سه بعدی آن با جانمایی دقیق تجهیزات داخل اتاق ارائه شده است .

برای ارتباط 20 سوئیچ پراکنده ای که داخل ساختمان های و محوطه ی پالایشگاه قرار دارد از 1 مسیر کابل فیبر نوری 10 کور، 2 مسیر فیبر نوری 4 کور، 4 مسیر فیبر نوری 2 کور استفاده شده است.

دیاگرام ارتباط سیستم فیبرمجموعه گواه این مطلب میباشد.

جهت مدیریت و ذخیره تصاویر این سیستم، تعداد 1دستگاه سرور ذخیره با حجم ذخیره سازی 32 ترابایت، ذخیره تصاویر را تا 22 روز میسر می کند.

همچنین به دلیل برق رسانی جزیره ای برای قسمت های مختلف و استفاده از 3 مسیر اصلی کابل برق و 3 تابلو برق اصلی ضمن تامین امنیت سیستم از قطع شدن تصاویر کل مجموعه به دلیل قطعی کابل برق جلوگیری میکند.

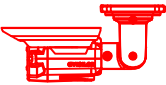
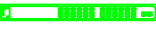
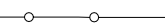
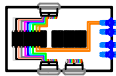
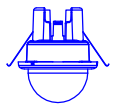
دیاگرام ارتباط برق تجهیزات توضیحات بیشتری را در این زمینه در اختیار می گذارد.

برای تخلیه الکتریسیته ساکن در سیستم مذکور از سه مجموعه چاه ارت برای تابلو های اصلی و محلی در نظر گرفته شده همچنین برای هر دکل و کابینت موجود در محوطه یک میله راد طراحی شده که کلیه جزئیات آن در قسمت دیاگرام ارت تجهیزات و نقشه های جزئیات سیستم ارت قابل مشاهده می باشد.

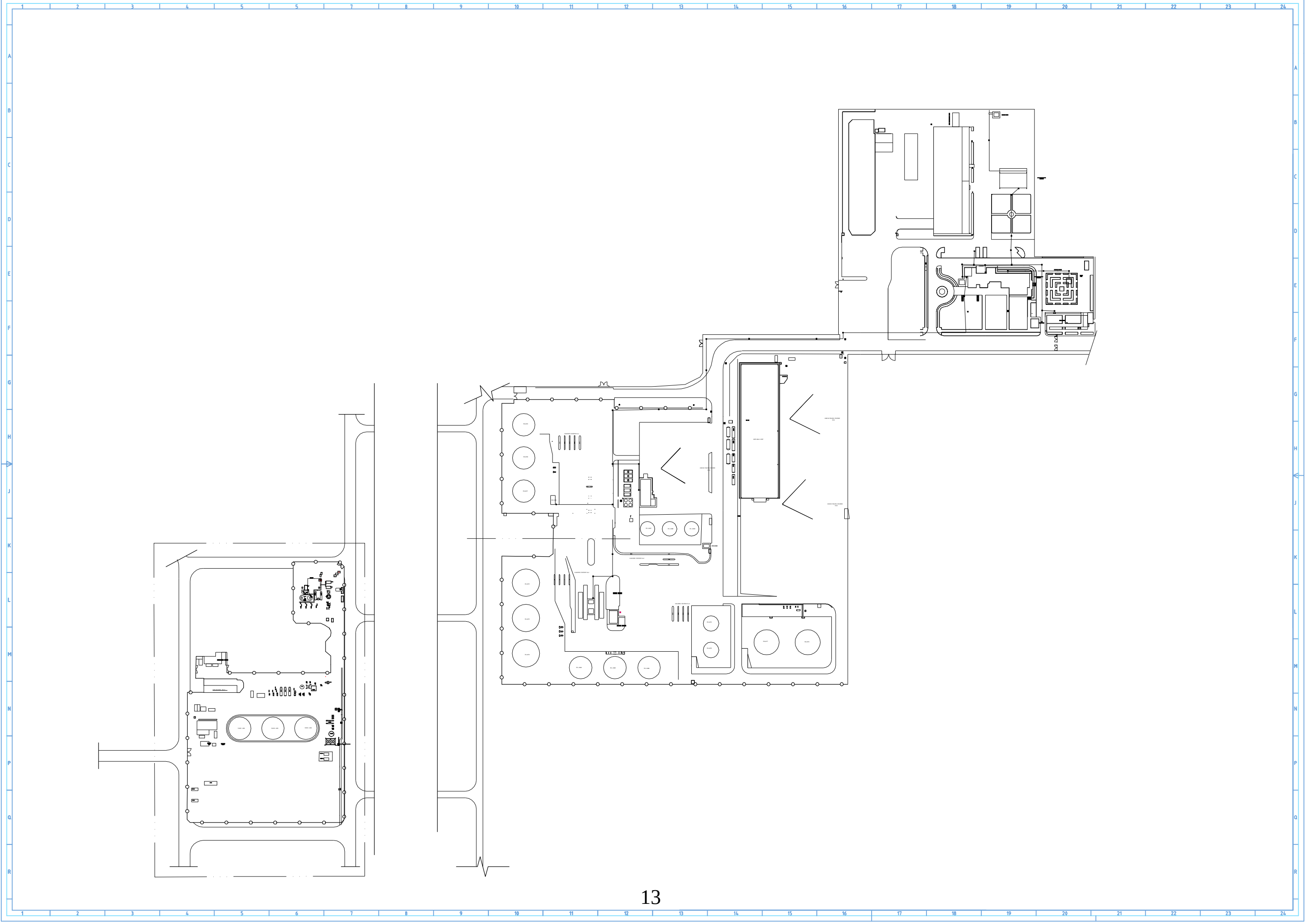
Season Second - Map locating equipment

List of Icons

The Table Symbol Used In The Detailed Design Guide

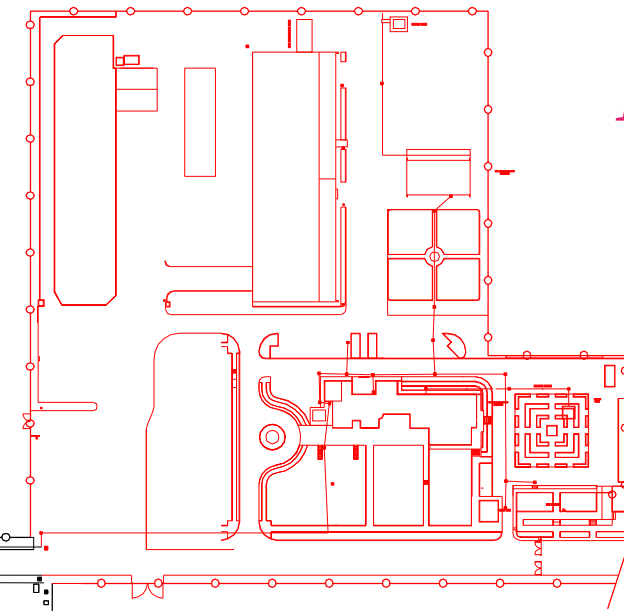
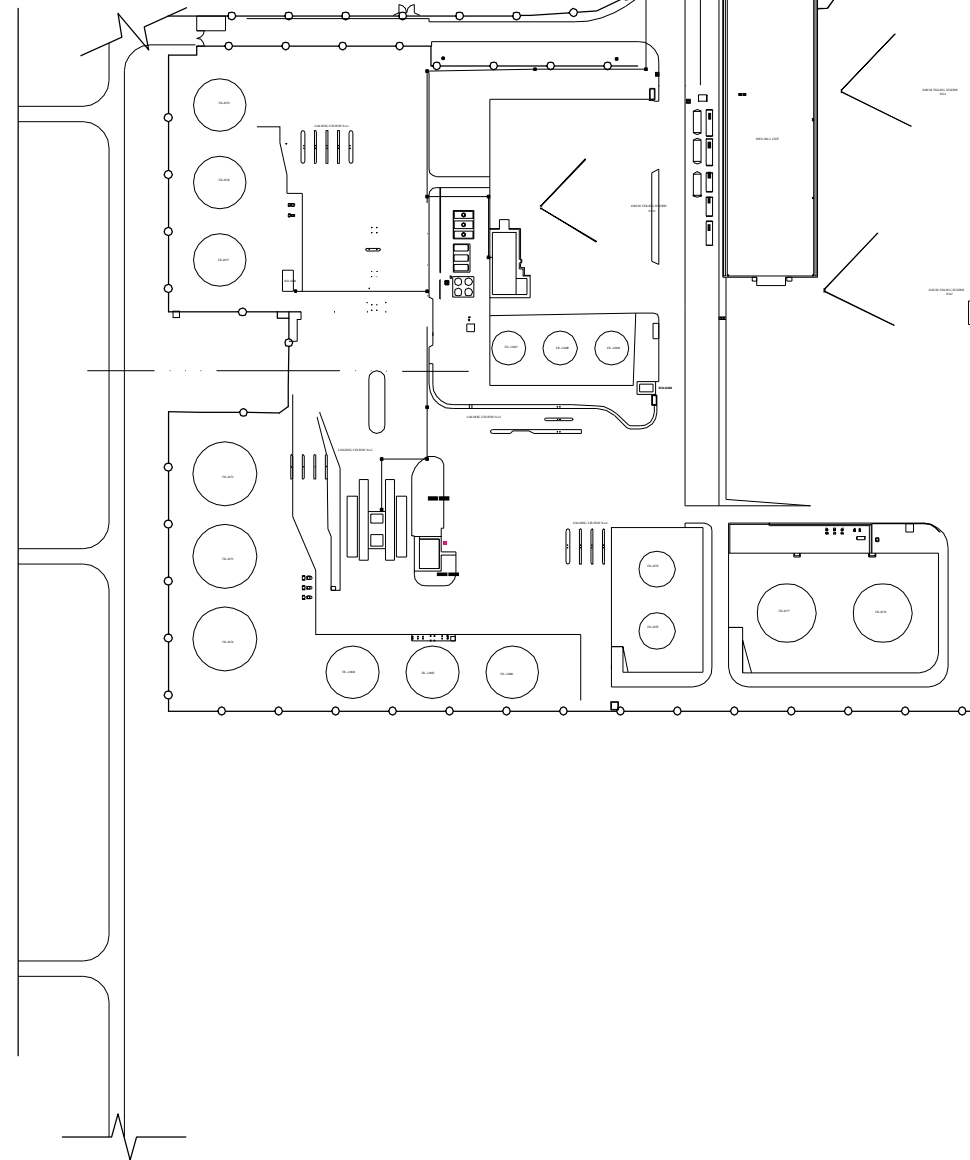
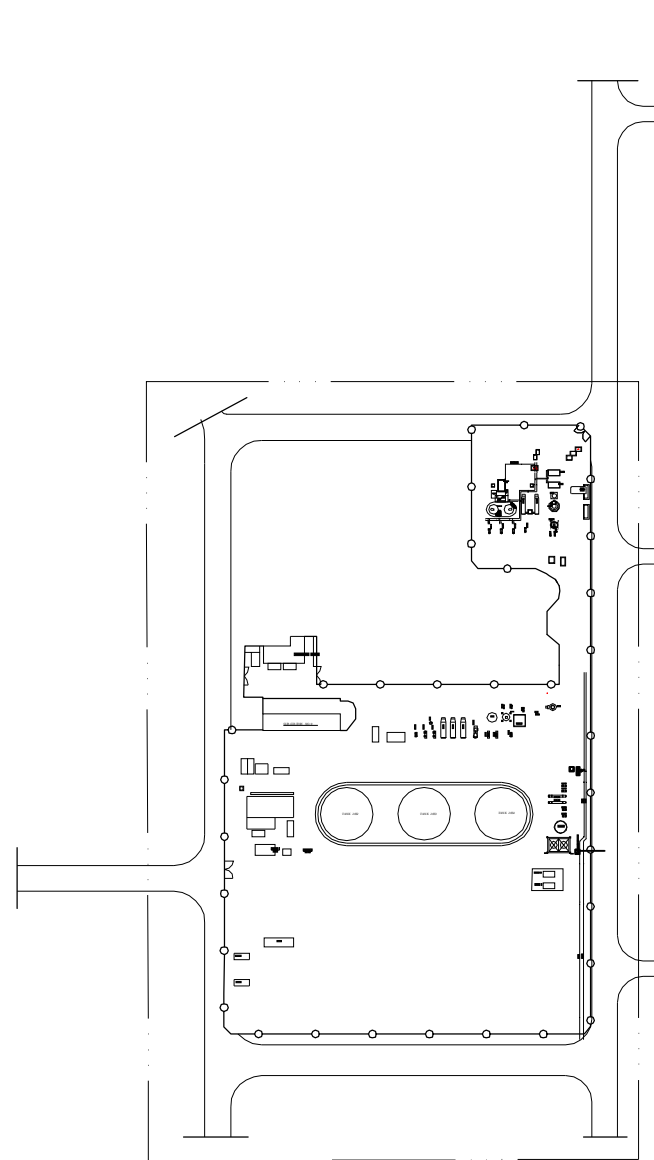
Symbol	Description	Symbol	Description	Symbol	Description	Symbol	Description	Symbol	Description
	Camera Type (A)		Server		Pigtail		Optical Fiber		Well Earth
	Camera Type (B)		Switch A		Path core		Junction		Control Room
	Camera Type (C)		Switch B		Optical Fiber		Plastic Junction Boxes		Control Room Rack
	Camera Type (D)		Switch C		PE Pipe		Junction Box Following An External Camera		Battery Rack
	Camera Type (E)		Switch D		Steel Pipe		Switch Boxes		UPS
	Camera Type (F)		Media Converter		Coated Flexible Pipe		Metal Wall Boxes		Electrical Panel
	Camera Type (G)		Path Panel(24 port)		Gas Pipe		Access Valves		Split Cooler
	Camera Type (I)		Fiber Path Panel(24 port)		Duct		Available Access Valves		Monitor
	Camera Type (J)		Fiber Path Panel(12 port)		Fence		4 Meters Mast		Keyboard
	Camera Type (K)		Fiber Path Panel(4 port)		partition		6 Meters Mast		Cafu
	Camera Type (L)		Cassette		Network Cable		10 Meters Mast		False Ceiling
	Camera Type (M)		Cassette Box		Power Cable		Support		green space
	Camera Type (N)		Transceiver		Earth Cable		Mountinf Camera Trap		Height indicator

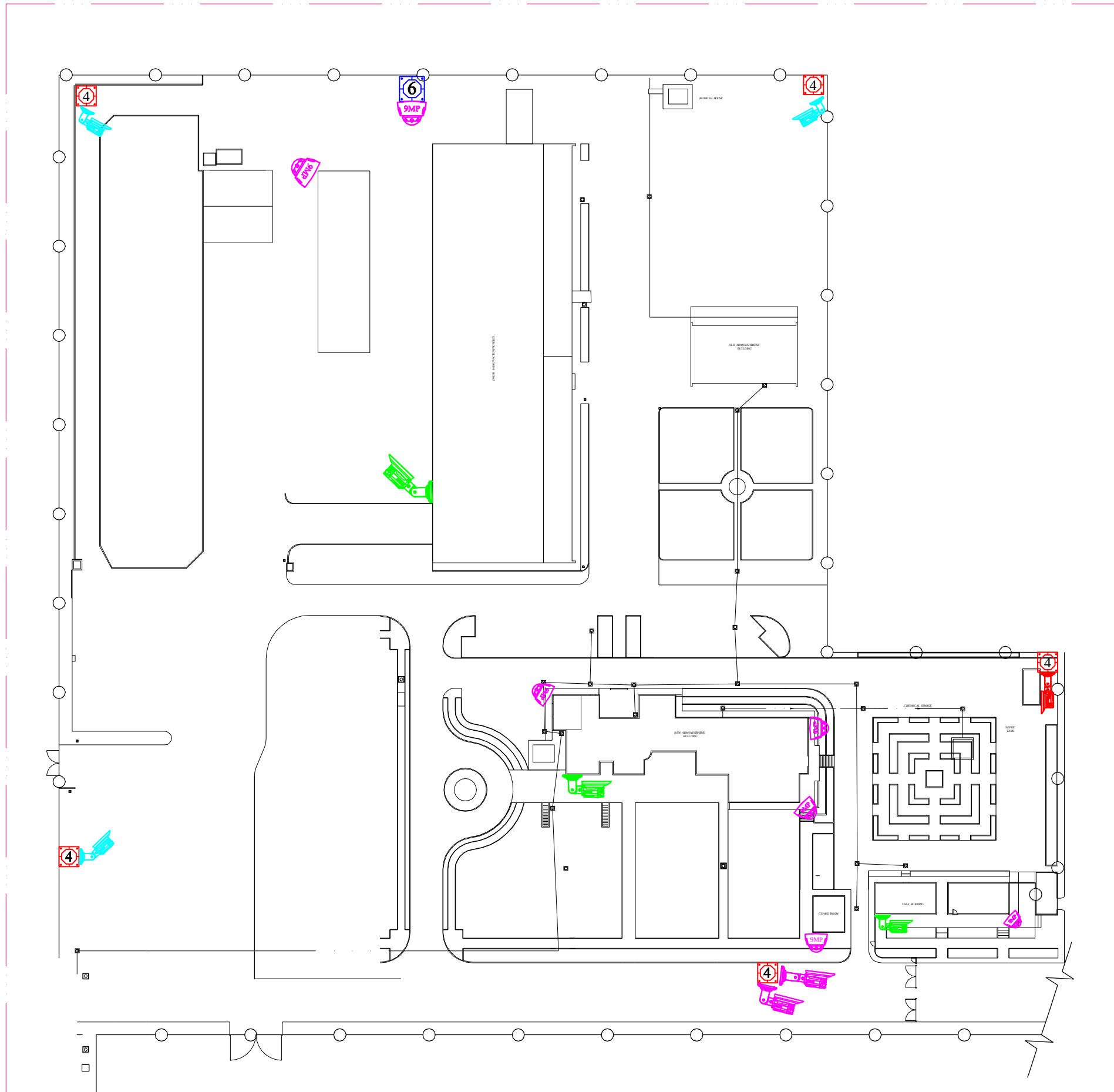
Overview



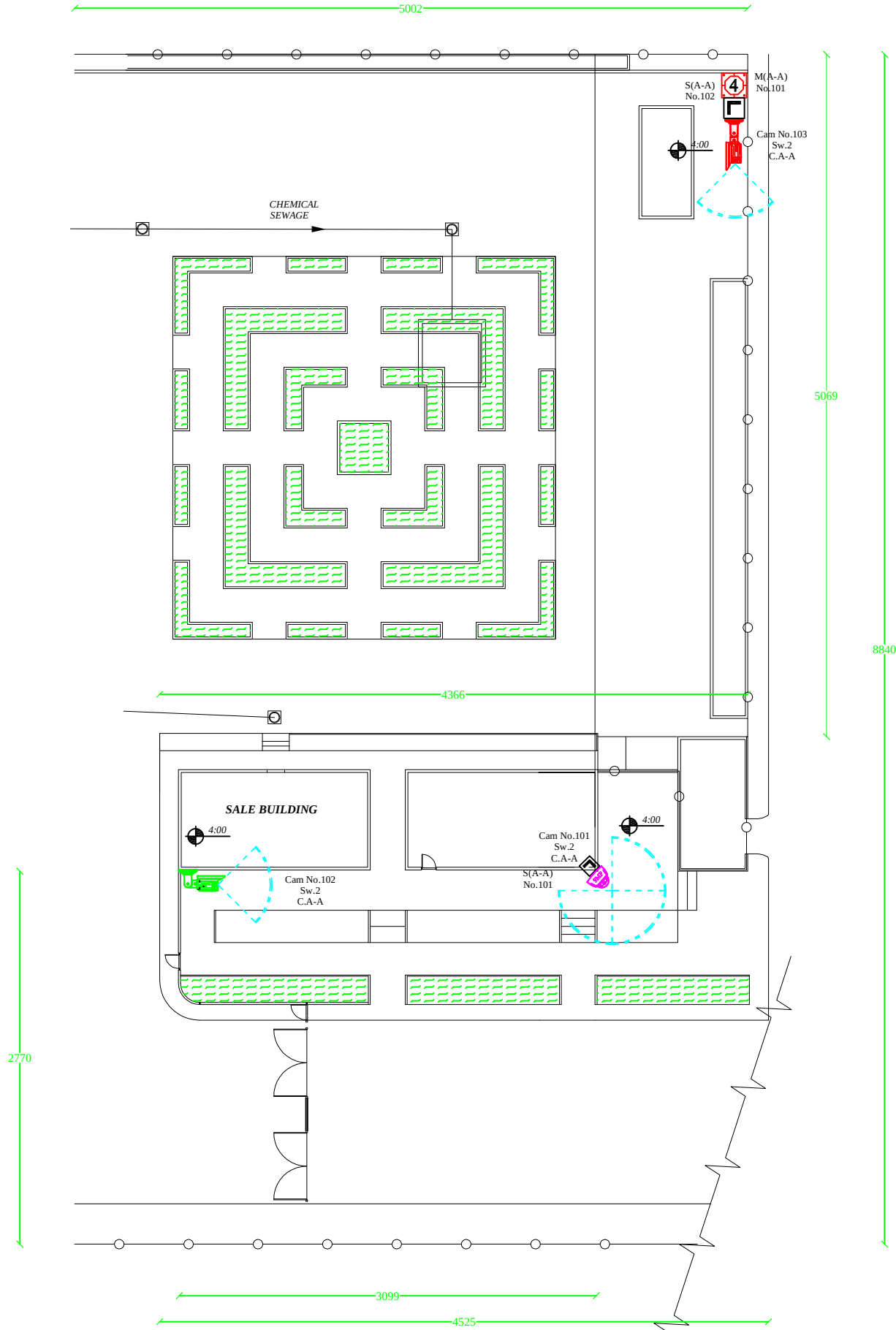
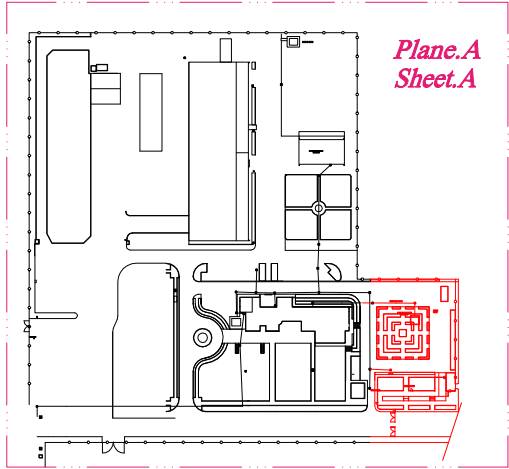
Plane A-Building center

Plane.A





Plane.A



Guidence Map

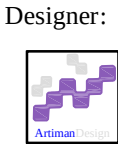
Symbol	Description	Number
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	Camera Type (B)	1
	Camera Type (C)	0
	Camera Type (D)	1
	Camera Type (E)	0
	Camera Type (F)	1
	Camera Type (G)	0
	Camera Type (I)	0
	Camera Type (J)	0
	Camera Type (K)	0
	Camera Type (L)	0
	Camera Type (M)	0
	Camera Type (N)	0
	Switch Type A	0
	Switch Type B	0
	Switch Type C	0
	Switch Type D	0
	Media Converter (M-C)	0
	Client	0
	Projector	3
	4Meters Mast	1
	6Meters Mast	0
	10Meters Mast	0
	Support (S)	2
	Mountinf Camera Trap	0
	Control Room	
	Height indicator	

Project: **Jey Oil Refining Company**

Title: **Map Location Equipment**

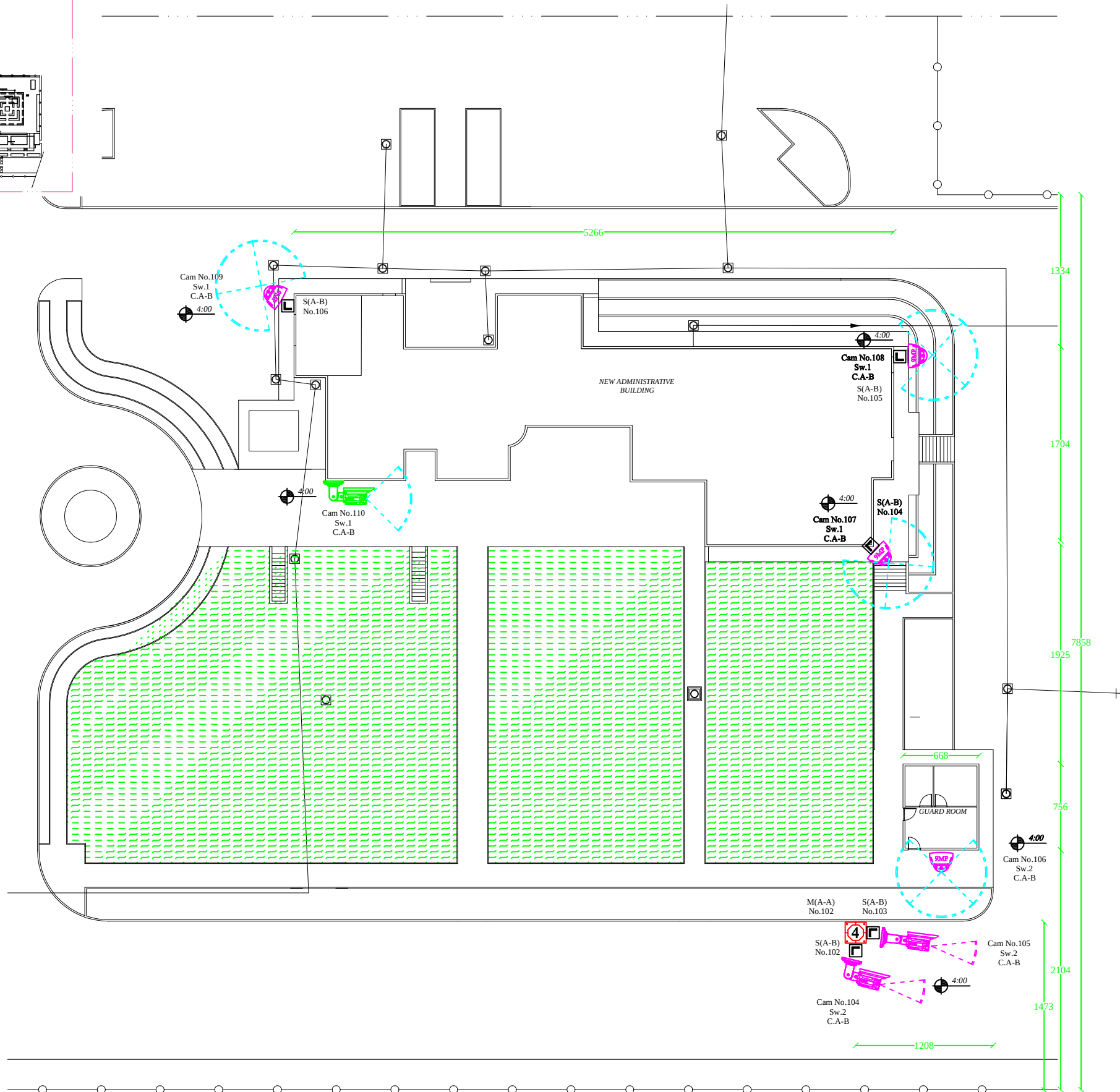
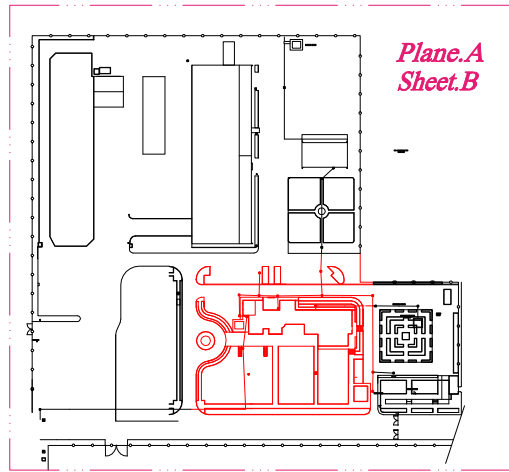
Place: **Entrance Area**

Plan Number: **Jey Oil_cam_p(a-a)_940301_00**



Internal Visit			
Amir Jamali	Milad Hajati	Behzad Farahani	95/03/01
Producer	Producer	Seconder	Date

Scale: 1:400 Detail Designer ☐ Deneral Designer ☒ Page: 1 Of: 29



Guidence Map

Symbol	Description	Number
	Camera Type (A)	0
	Camera Type (B)	0
	Camera Type (C)	2
	Camera Type (D)	1
	Camera Type (E)	0
	Camera Type (F)	4
	Camera Type (G)	0
	Camera Type (I)	0
	Camera Type (J)	0
	Camera Type (K)	0
	Camera Type (L)	0
	Camera Type (M)	0
	Camera Type (N)	0
	Switch Type A	0
	Switch Type B	0
	Switch Type C	0
	Switch Type D	0
	Media Converter (M-C)	0
	Client	0
	Projector	6
	4Meters Mast	1
	6Meters Mast	0
	10Meters Mast	0
	Support (S)	6
	Mountinf Camera Trap	0
	Control Room	
	Height indicator	

Project:

Jey Oil Refining Company

Title:

Map Location Equipment

Place:

Building Center Area

Plan Number:

Jey Oil_cam_p(a-b)_940301_00

Employer:

Consultant:

Designer:

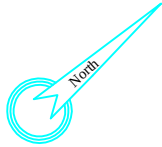
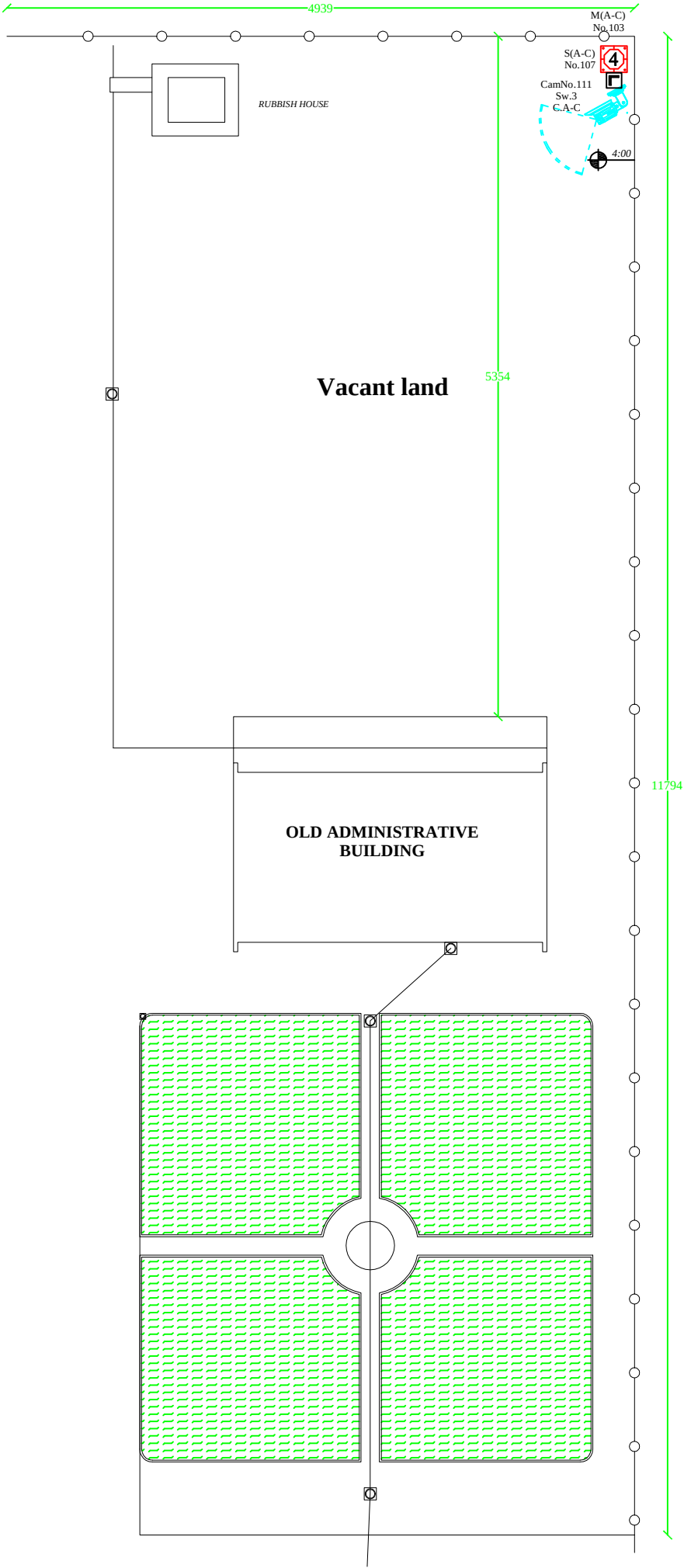
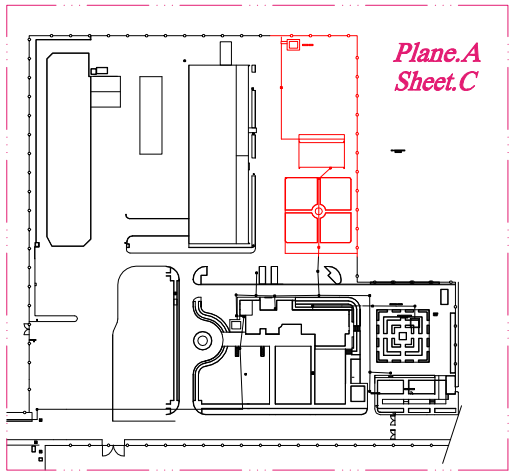
Scale: 1:400

Detail Designer

Deneral Designer

Page: 2 Of: 29

Internal Visit			
Amir Jamali	Milad Hajati	Behzad Farahani	95/03/01
Producer	Producer	Seconder	Date



Guidence Map

Symbol	Description	Number
	Camera Type (A)	1
	Camera Type (B)	0
	Camera Type (C)	0
	Camera Type (D)	0
	Camera Type (E)	0
	Camera Type (F)	0
	Camera Type (G)	0
	Camera Type (I)	0
	Camera Type (J)	0
	Camera Type (K)	0
	Camera Type (L)	0
	Camera Type (M)	0
	Camera Type (N)	0
	Switch Type A	0
	Switch Type B	0
	Switch Type C	0
	Switch Type D	0
	Media Converter (M-C)	0
	Client	0
	Projector	0
	4Meters Mast	1
	6Meters Mast	0
	10Meters Mast	0
	Support (S)	1
	Mountinf Camera Trap	0
	Control Room	
	Height indicator	

Project: Jey Oil Refining Company

Title: Map Location Equipment

Place: Porner Area

Plan Number: Jey Oil_cam_p(a-c)_940301_00

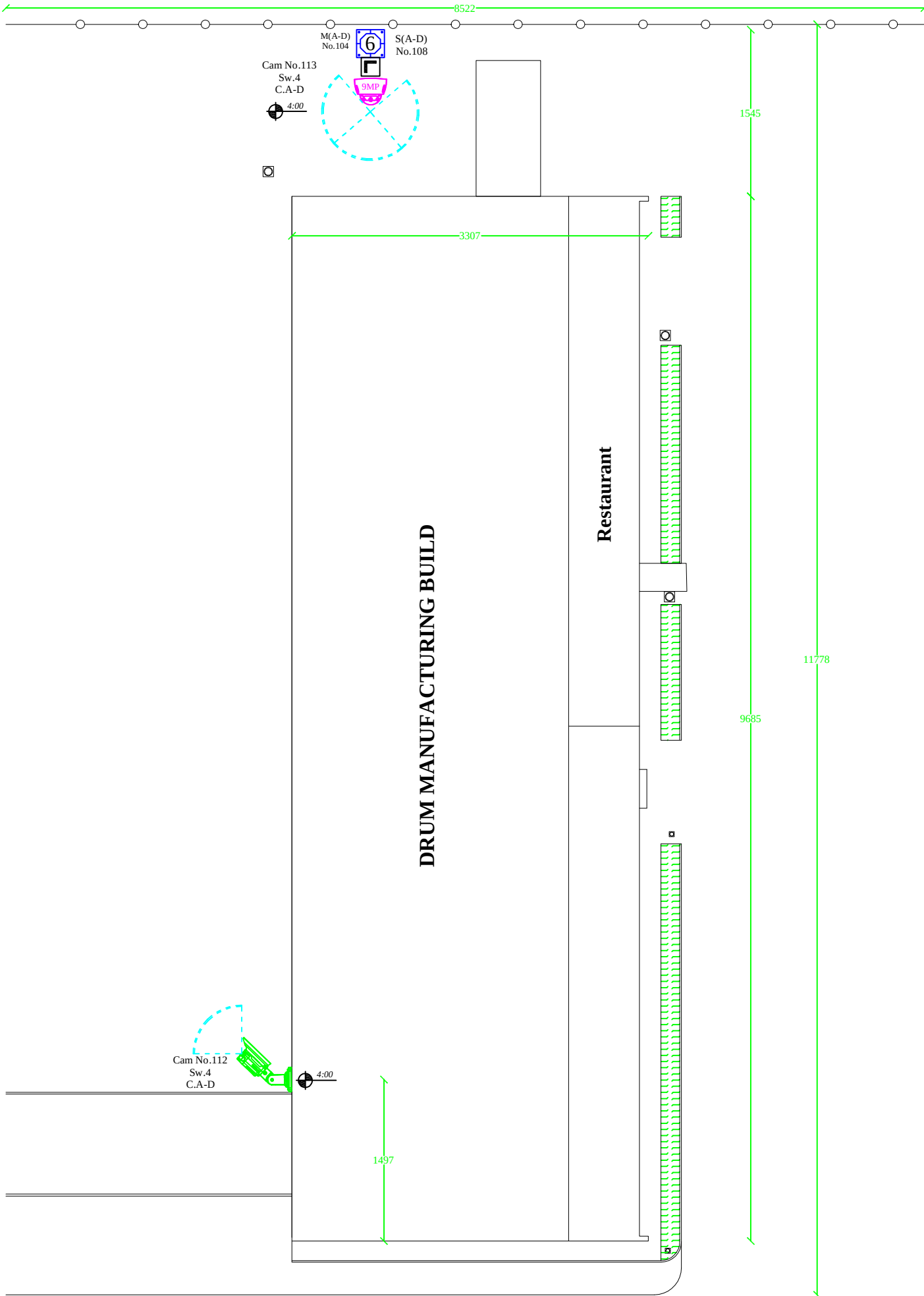
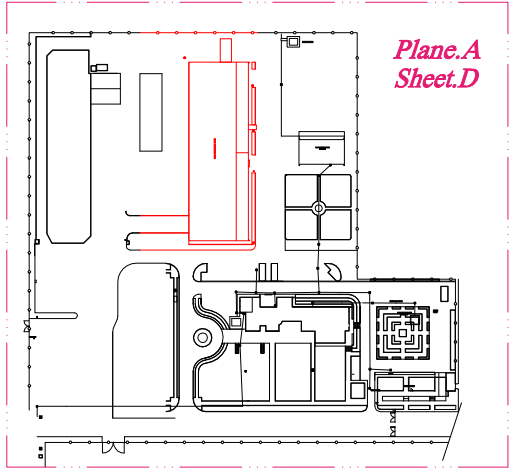
Employer:

Consultant:

Designer:

Scale: 1:450Detail DesignerDenal DesignerPage:3 Of: 29

Internal Visit			
Amir Jamali	Milad Hajati	Behzad Farahani	95/03/01
Producer	Producer	Seconder	Date



Guidence Map

Symbol	Description	Number
	Camera Type (A)	0
	Camera Type (B)	0
	Camera Type (C)	0
	Camera Type (D)	1
	Camera Type (E)	0
	Camera Type (F)	1
	Camera Type (G)	0
	Camera Type (I)	0
	Camera Type (J)	0
	Camera Type (K)	0
	Camera Type (L)	0
	Camera Type (M)	0
	Camera Type (N)	0
	Switch Type A	0
	Switch Type B	0
	Switch Type C	0
	Switch Type D	0
	Media Converter (M-C)	0
	Client	0
	Projector	3
	4Meters Mast	0
	6Meters Mast	1
	10Meters Mast	0
	Support (S)	1
	Mountinf Camera Trap	0
	Control Room	
	Height indicator	

Project: Jey Oil Refining Company

Title: Map Location Equipment

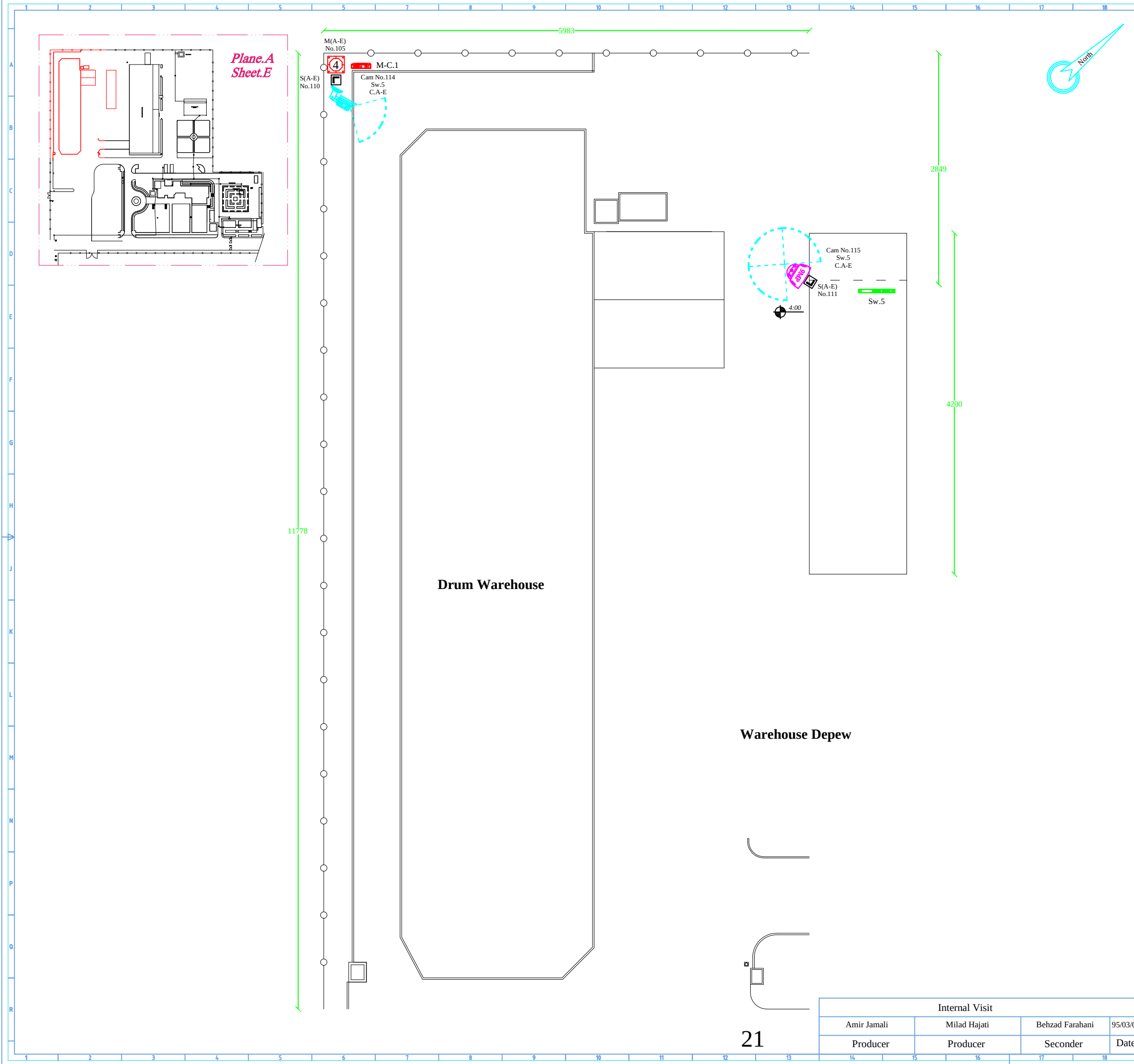
Place: DRUM MANUFACTURING BUILD

Plan Number: Jey Oil_cam_p(a-d)_940301_00

Employer: 	Consultant: 	Designer:
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Scale: 1:450 Detail Designer ☐ Deneral Designer ☒ Page: 4 Of: 29

Internal Visit			
Amir Jamali	Milad Hajati	Behzad Farahani	95/03/01
Producer	Producer	Seconder	Date



Guidence Map

Symbol	Description	Number
	Camera Type (A)	1
	Camera Type (B)	0
	Camera Type (C)	0
	Camera Type (D)	0
	Camera Type (E)	0
	Camera Type (F)	1
	Camera Type (G)	0
	Camera Type (I)	0
	Camera Type (J)	0
	Camera Type (K)	0
	Camera Type (L)	0
	Camera Type (M)	0
	Camera Type (N)	0
	Switch Type A	0
	Switch Type B	0
	Switch Type C	0
	Switch Type D	0
	Media Converter (M-C)	1
	Client	0
	Projector	3
	4Meters Mast	1
	6Meters Mast	0
	10Meters Mast	0
	Support (S)	2
	Mountinf Camera Trap	0
	Control Room	
	Height indicator	

Project: Jey Oil Refining Company

Title: Map Location Equipment

Place: Drum Warehouse Area

Plan Number: Jey Oil_cam_p(a-e)_940301_00

Employer: Jey Oil Refining Company

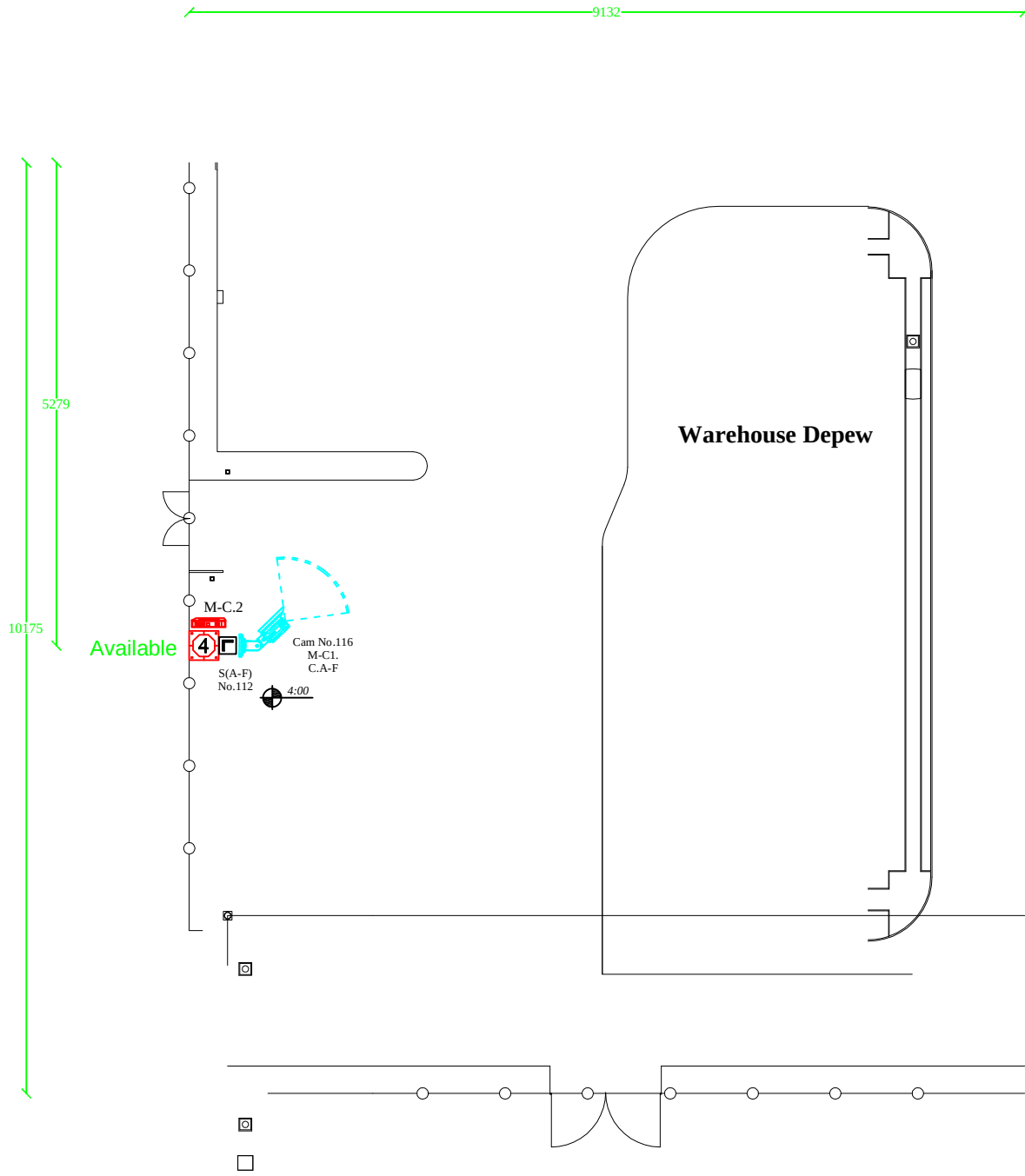
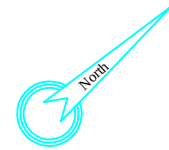
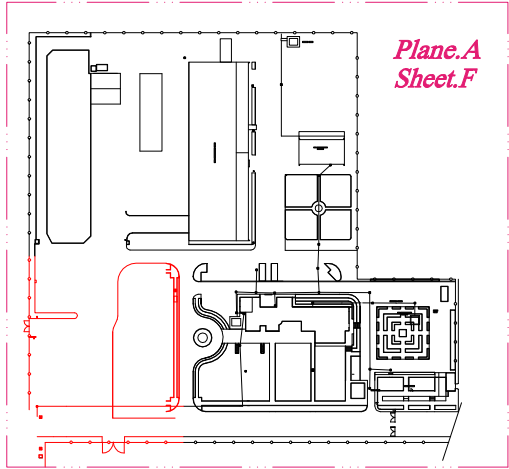
Consultant: Raya Engineering Company

Designer: Artiman Design

Scale: 1:450 Detail Designer Deneral Designer Page:5 Of: 29

Internal Visit			
Amir Jamali	Milad Hajati	Behzad Farahani	95/03/01
Producer	Producer	Seconder	Date

21



Guidence Map

Symbol	Description	Number
	Camera Type (A)	1
	Camera Type (B)	0
	Camera Type (C)	0
	Camera Type (D)	0
	Camera Type (E)	0
	Camera Type (F)	0
	Camera Type (G)	0
	Camera Type (I)	0
	Camera Type (J)	0
	Camera Type (K)	0
	Camera Type (L)	0
	Camera Type (M)	0
	Camera Type (N)	0
	Switch Type A	0
	Switch Type B	0
	Switch Type C	0
	Switch Type D	0
	Media Converter (M-C)	1
	Client	0
	Projector	0
	4Meters Mast	1
	6Meters Mast	0
	10Meters Mast	0
	Support (S)	1
	Mountinf Camera Trap	0
	Control Room	
	Height indicator	

Project: **Jey Oil Refining Company**

Title: **Map Location Equipment**

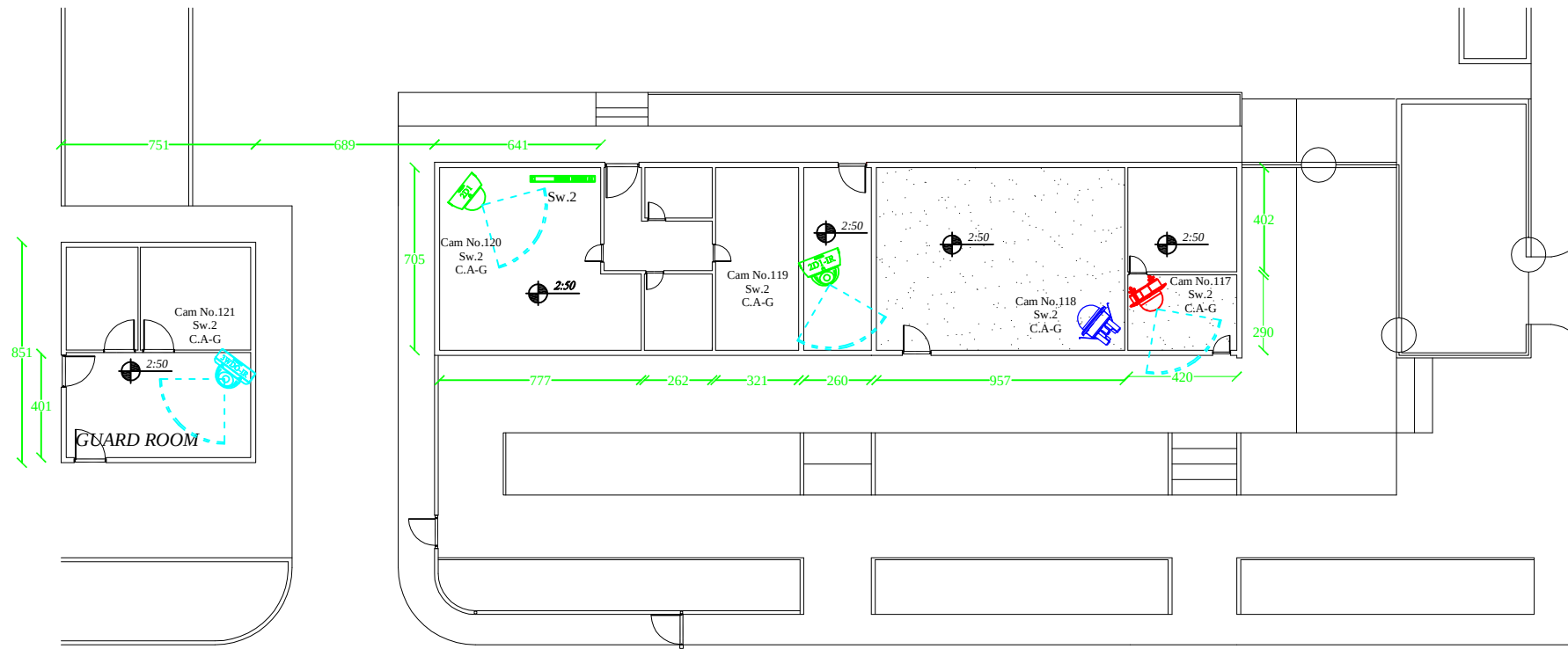
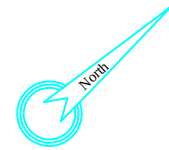
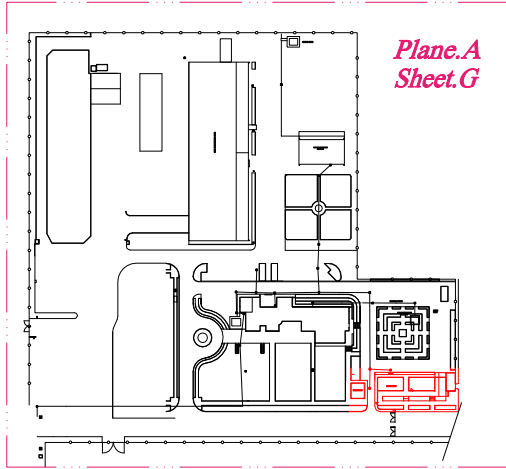
Place: **Warehouse Depew Area**

Plan Number: **Jey Oil_cam_p(a-f)_940301_00**

Employer: 	Consultant: 	Designer:
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Scale: 1:700 Detail Designer ☐ Deneral Designer ☒ Page:6 Of: 29

Internal Visit			
Amir Jamali	Milad Hajati	Behzad Farahani	95/03/01
Producer	Producer	Seconder	Date

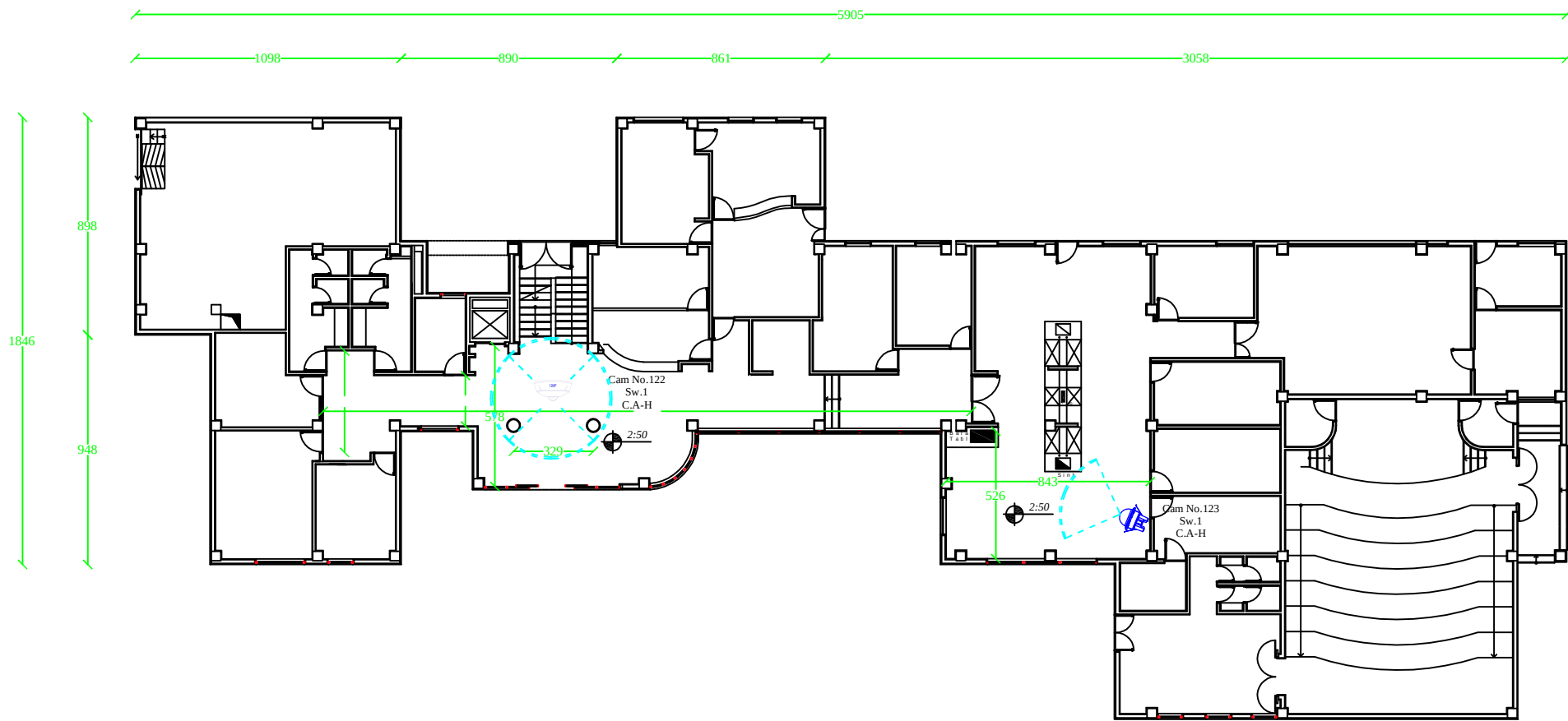
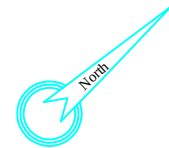
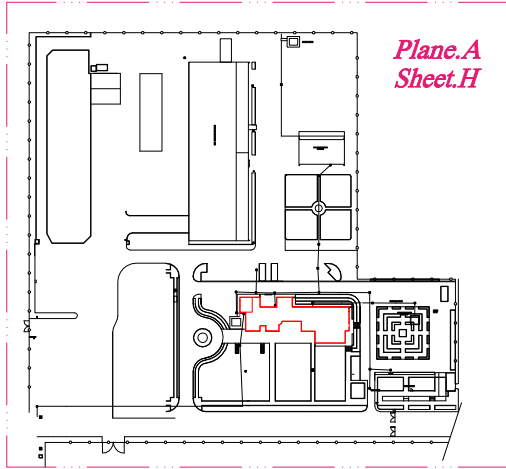


Guidence Map

Symbol	Description	Number
	Camera Type (A)	0
	Camera Type (B)	0
	Camera Type (C)	0
	Camera Type (D)	0
	Camera Type (E)	0
	Camera Type (F)	0
	Camera Type (G)	0
	Camera Type (I)	1
	Camera Type (J)	1
	Camera Type (K)	1
	Camera Type (L)	1
	Camera Type (M)	0
	Camera Type (N)	1
	Switch Type A	0
	Switch Type B	1
	Switch Type C	0
	Switch Type D	0
	Media Converter IPEC-0101FT (M-C)	0
	Client	0
	Projector	0
	4Meters Mast	0
	6Meters Mast	0
	10Meters Mast	0
	Support (S)	0
	Mountinf Camera Trap	0
	Control Room	
	Height indicator	

Project: Jey Oil Refining Company		
Title: Map Location Equipment		
Place: Entrance Building		
Plan Number: Jey Oil_cam_gf(entrance building)_940301_00		
Employer: 	Consultant: 	Designer:
Scale: 1:250	Detail Designer ☐ Deneral Designer ☒	Page: 7 Of: 29

Internal Visit			
Amir Jamali	Milad Hajati	Behzad Farahani	95/03/01
Producer	Producer	Seconder	Date

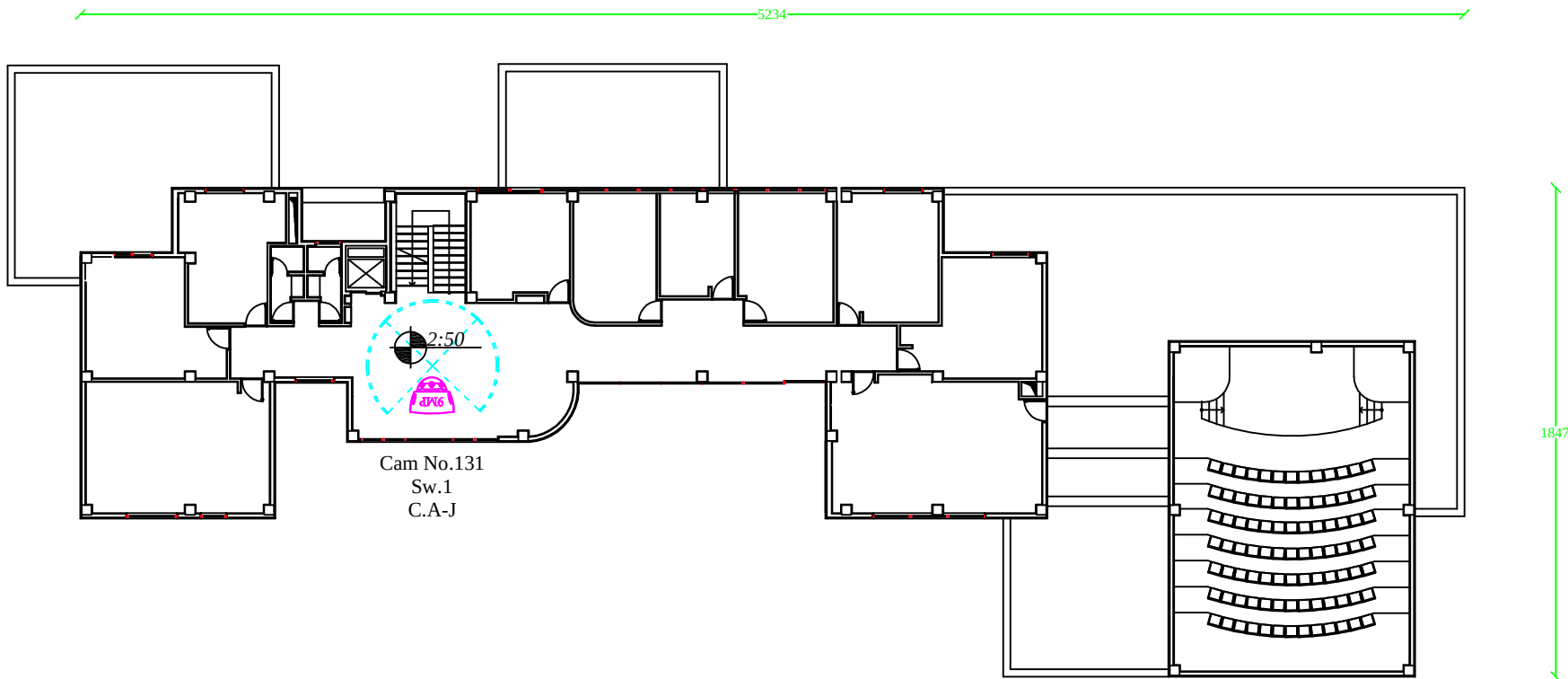
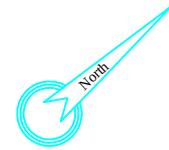
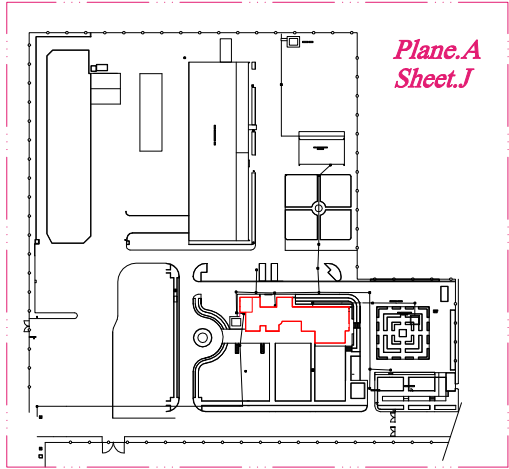


Guidence Map

Symbol	Description	Number
	Camera Type (A)	0
	Camera Type (B)	0
	Camera Type (C)	0
	Camera Type (D)	0
	Camera Type (E)	1
	Camera Type (F)	0
	Camera Type (G)	0
	Camera Type (I)	0
	Camera Type (J)	0
	Camera Type (K)	0
	Camera Type (L)	0
	Camera Type (M)	0
	Camera Type (N)	1
	Switch Type A	0
	Switch Type B	0
	Switch Type C	0
	Switch Type D	0
	Media Converter (M-C)	0
	Client	0
	Projector	0
	4Meters Mast	0
	6Meters Mast	0
	10Meters Mast	0
	Support (S)	0
	Mountinf Camera Trap	0
	Control Room	
	Height indicator	

Project: Jey Oil Refining Company		
Title: Map Location Equipment		
Place: Building Center		
Plan Number: Jey Oil_cam_gf(bulding center)_940301_00		
Employer: 	Consultant: 	Designer:
Scale: 1:250	Detail Designer ☐ Deneral Designer ☒	Page:8 Of: 29

Internal Visit			
Amir Jamali	Milad Hajati	Behzad Farahani	95/03/01
Producer	Producer	Seconder	Date



Guidence Map

Symbol	Description	Number
	Camera Type (A)	0
	Camera Type (B)	0
	Camera Type (C)	0
	Camera Type (D)	0
	Camera Type (E)	0
	Camera Type (F)	1
	Camera Type (G)	0
	Camera Type (I)	0
	Camera Type (J)	0
	Camera Type (K)	0
	Camera Type (L)	0
	Camera Type (M)	0
	Camera Type (N)	0
	Switch Type A	0
	Switch Type B	0
	Switch Type C	0
	Switch Type D	0
	Media Converter (M-C)	0
	Client	0
	Projector	0
	4Meters Mast	0
	6Meters Mast	0
	10Meters Mast	0
	Support (S)	0
	Mountinf Camera Trap	0
	Control Room	
	Height indicator	

Project: Jey Oil Refining Company

Title: Map Location Equipment

Place: Building Center

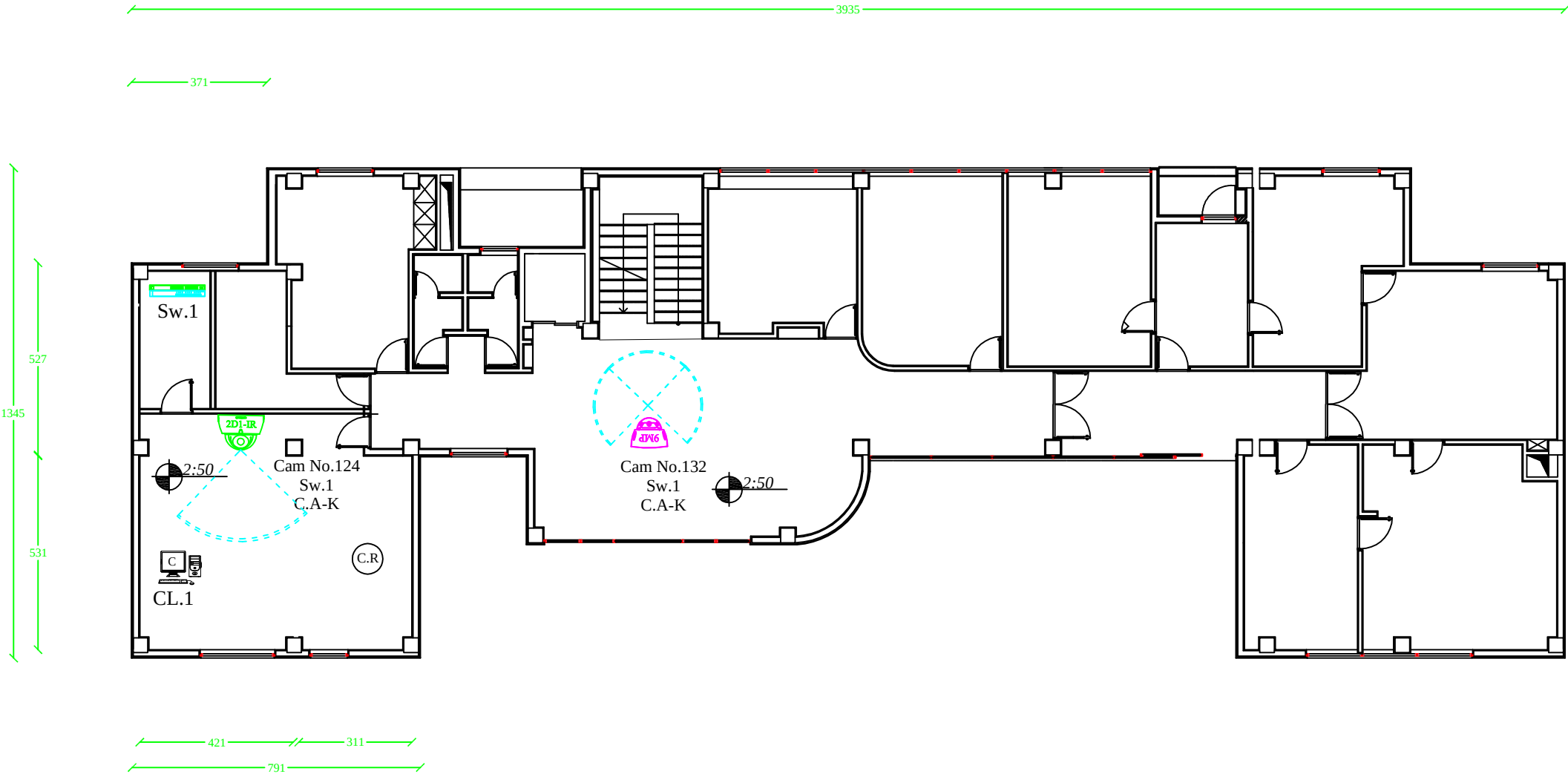
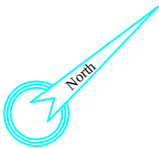
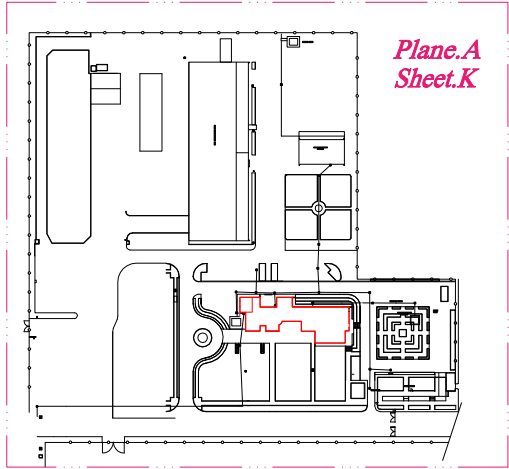
Plan Number: Jey Oil_cam_f1(bulding center)_940301_00

Employer:

Consultant:

Designer:

Internal Visit			
Amir Jamali	Milad Hajati	Behzad Farahani	95/03/01
Producer	Producer	Seconder	Date

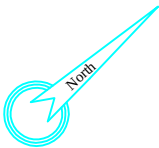
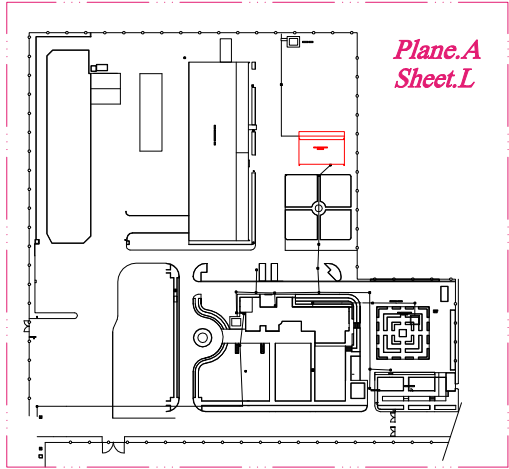


Guidence Map

Symbol	Description	Number
	Camera Type (A)	0
	Camera Type (B)	0
	Camera Type (C)	0
	Camera Type (D)	0
	Camera Type (E)	0
	Camera Type (F)	1
	Camera Type (G)	0
	Camera Type (I)	0
	Camera Type (J)	0
	Camera Type (K)	1
	Camera Type (L)	0
	Camera Type (M)	0
	Camera Type (N)	0
	Switch Type A	1
	Switch Type B	1
	Switch Type C	0
	Switch Type D	0
	Media Converter (M-C)	0
	Client	1
	Projector	0
	4Meters Mast	0
	6Meters Mast	0
	10Meters Mast	0
	Support (S)	0
	Mountinf Camera Trap	0
	Control Room	
	Height indicator	

Project: Jey Oil Refining Company		
Title: Map Location Equipment		
Place: Building Center		
Plan Number: Jey Oil_cam_f2(building center)_940301_00		
Employer: 	Consultant: 	Designer:
Scale: 1:150	Detail Designer ☐	Deneral Designer ☒ Page:10 Of: 29

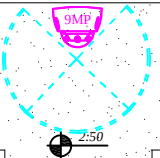
Internal Visit			
Amir Jamali	Milad Hajati	Behzad Farahani	95/03/01
Producer	Producer	Seconder	Date



OLD
ADMINISTRATIVE
BUILDING

Cam No.125
Sw.3
C.A-L

Sw.3

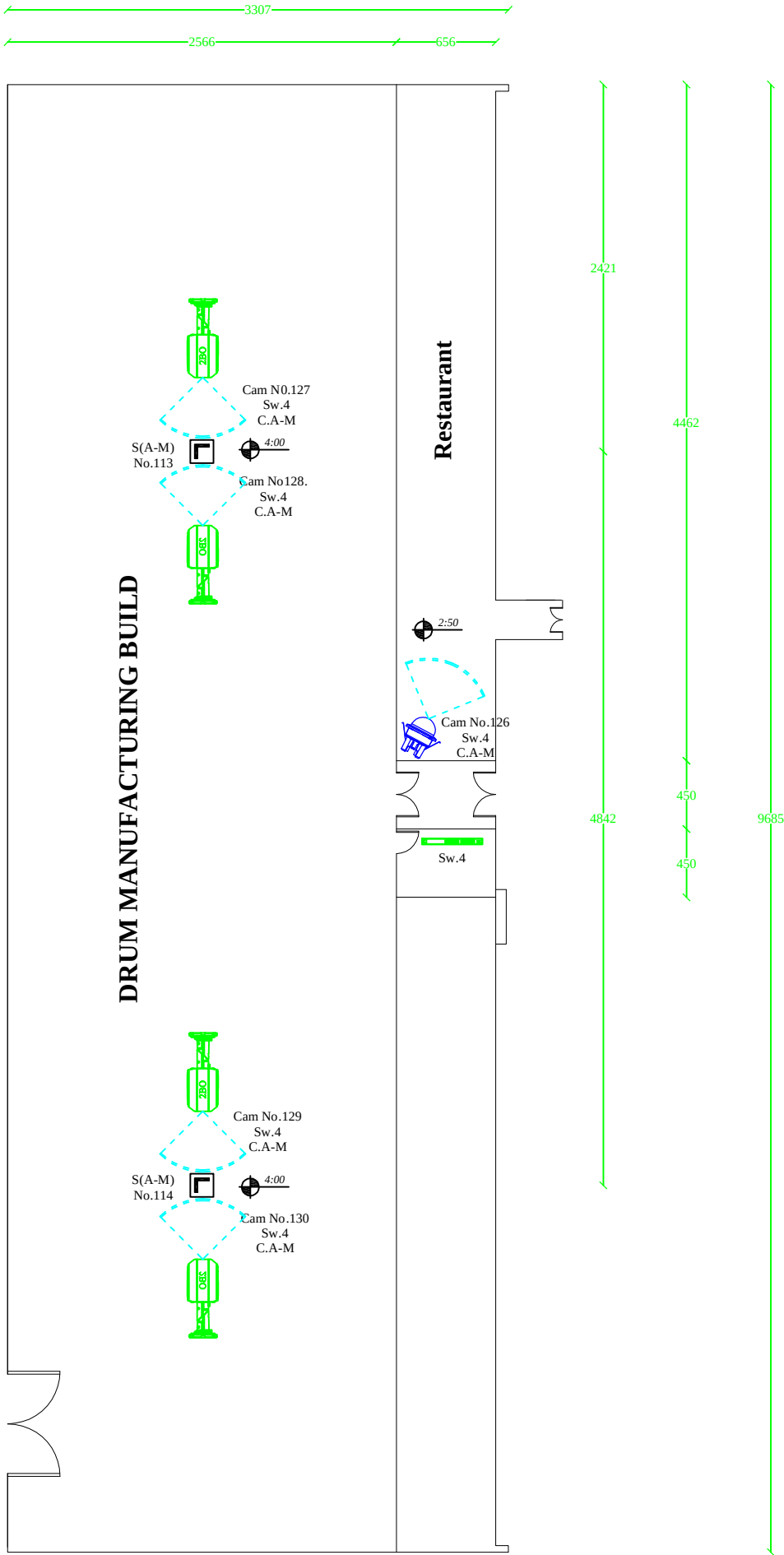
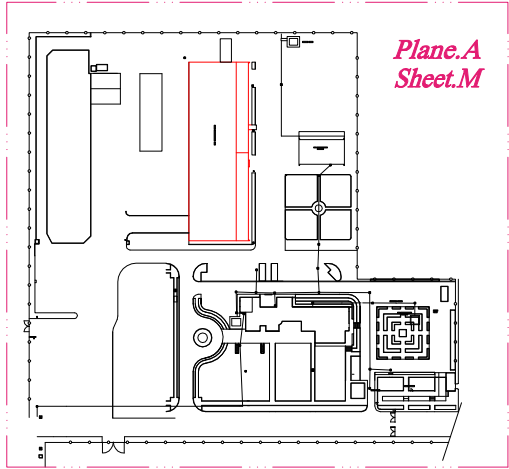


Guidence Map

Symbol	Description	Number
	Camera Type (A)	0
	Camera Type (B)	0
	Camera Type (C)	0
	Camera Type (D)	0
	Camera Type (E)	0
	Camera Type (F)	1
	Camera Type (G)	0
	Camera Type (I)	0
	Camera Type (J)	0
	Camera Type (K)	0
	Camera Type (L)	0
	Camera Type (M)	0
	Camera Type (N)	0
	Switch Type A	0
	Switch Type B	0
	Switch Type C	1
	Switch Type D	0
	Media Converter (M-C)	0
	Client	0
	Projector	0
	4Meters Mast	0
	6Meters Mast	0
	10Meters Mast	0
	Support (S)	0
	Mountinf Camera Trap	0
	Control Room	
	Height indicator	

Project: Jey Oil Refining Company		
Title: Map Location Equipment		
Place: OLD ADMINISTRATIVE BUILDING		
Plan Number: Jey Oil_cam_gf(porner)_940301_00		
Employer: 	Consultant: 	Designer:
Scale: 1:100	Detail Designer ☐	Deneral Designer ☒ Page:11 Of: 29

Internal Visit			
Amir Jamali	Milad Hajati	Behzad Farahani	95/01/24
Producer	Producer	Seconder	Date



Guidence Map

Symbol	Description	Number
	Camera Type (A)	0
	Camera Type (B)	0
	Camera Type (C)	0
	Camera Type (D)	4
	Camera Type (E)	0
	Camera Type (F)	0
	Camera Type (G)	0
	Camera Type (I)	0
	Camera Type (J)	0
	Camera Type (K)	0
	Camera Type (L)	0
	Camera Type (M)	0
	Camera Type (N)	1
	Switch Type A	0
	Switch Type B	1
	Switch Type C	0
	Switch Type D	0
	Media Converter (M-C)	0
	Client	0
	Projector	0
	4Meters Mast	0
	6Meters Mast	0
	10Meters Mast	0
	Support (S)	2
	Mountinf Camera Trap	0
	Control Room	
	Height indicator	

Project:

Title:

Place:

Plan Number:

Employer:

Consultant:

Designer:

Scale: 1:400

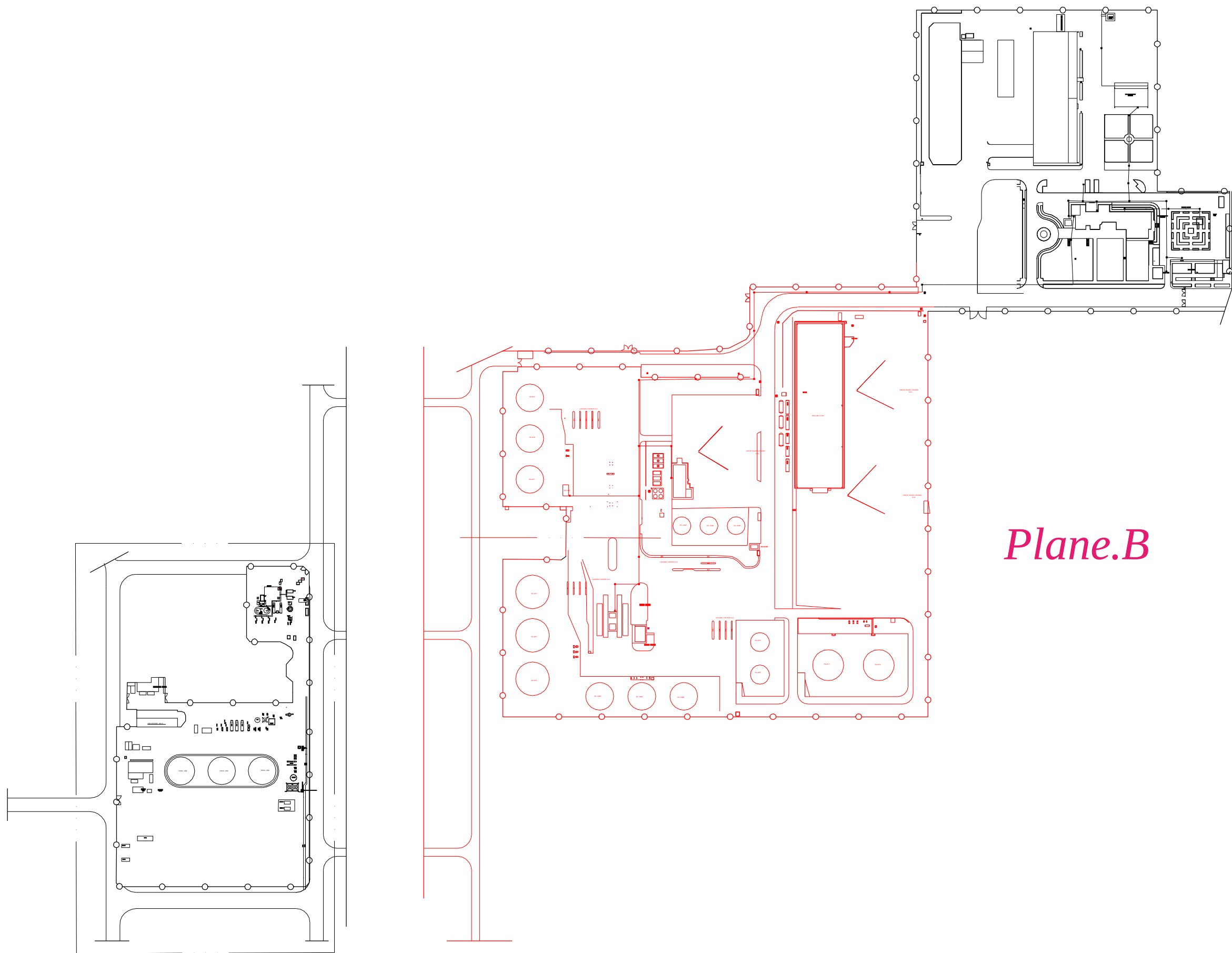
Detail Designer

Deneral Designer

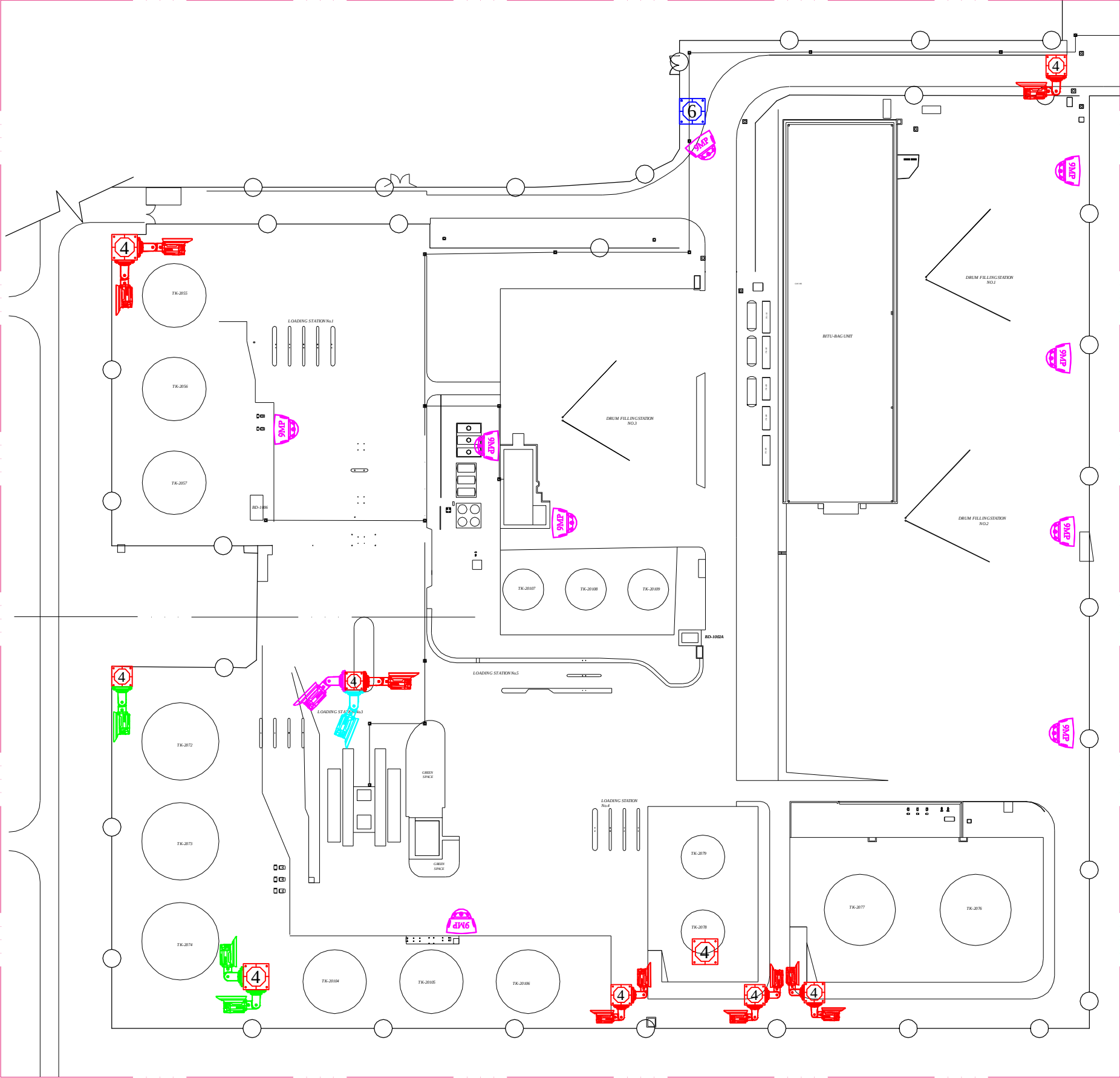
Page:12 Of: 29

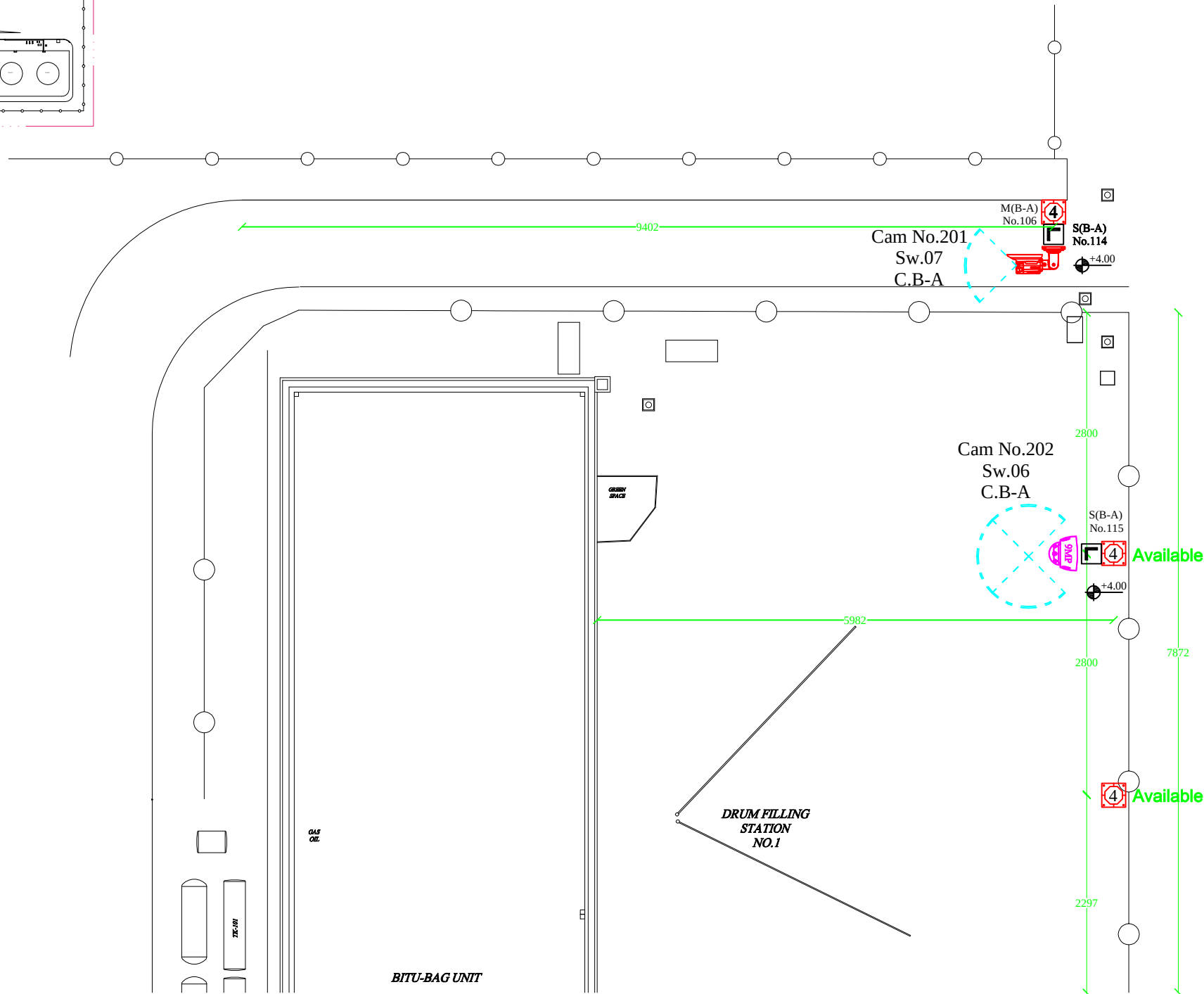
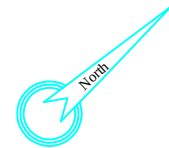
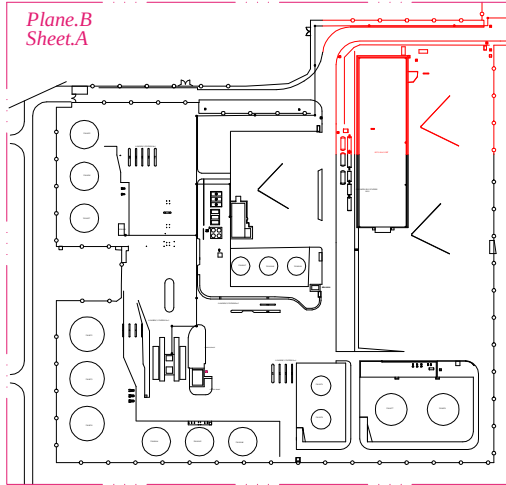
Internal Visit			
Amir Jamali	Milad Hajati	Behzad Farahani	95/03/01
Producer	Producer	Seconder	Date

Plane B-Distribution



Plane.B



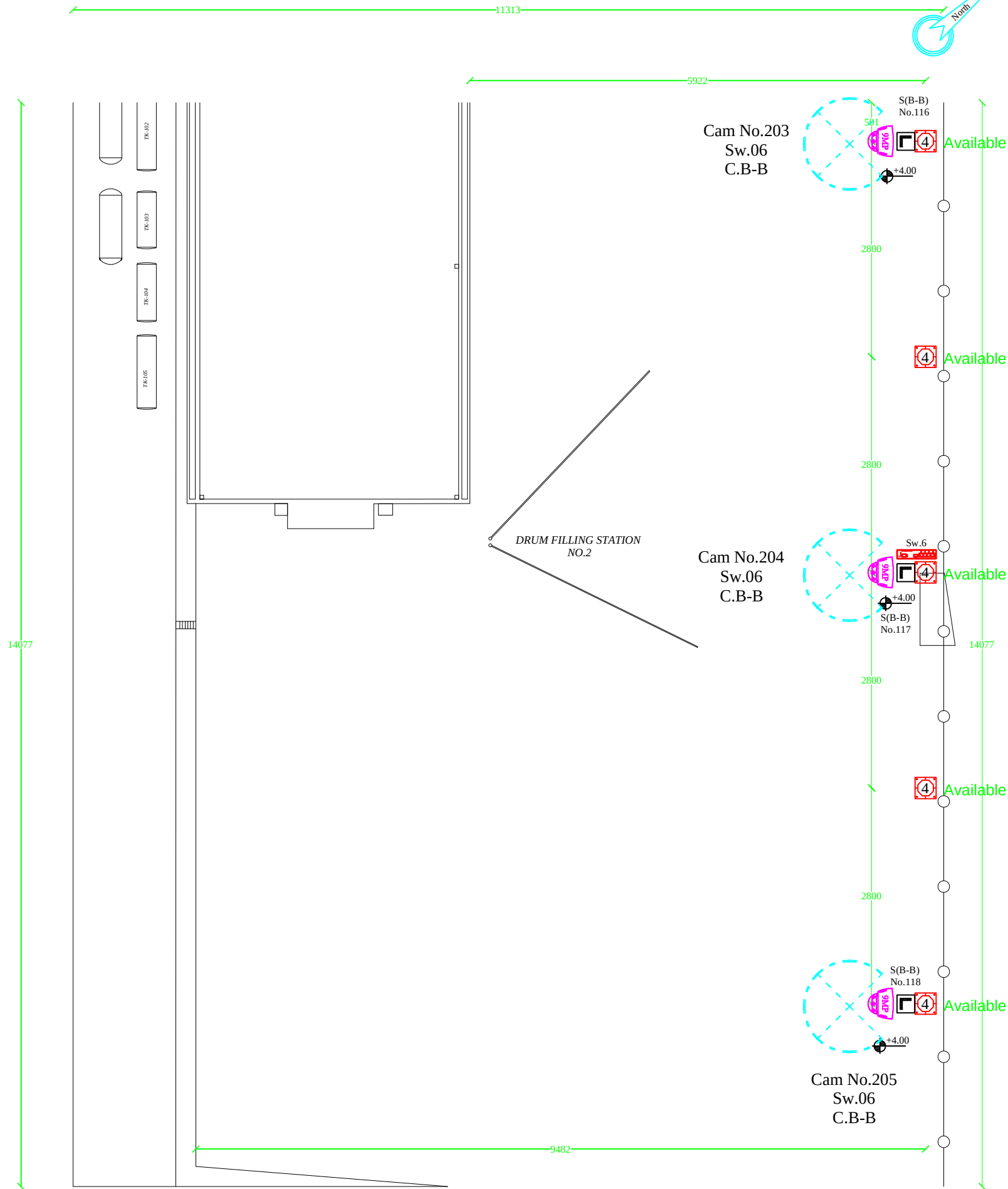
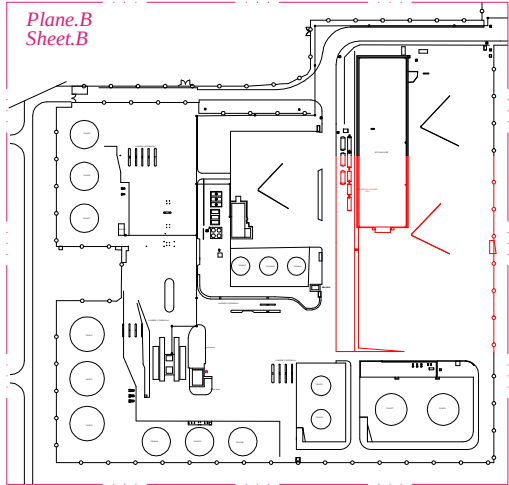


Guidence Map

Symbol	Description	Number
	Camera Type (A)	0
	Camera Type (B)	1
	Camera Type (C)	0
	Camera Type (D)	0
	Camera Type (E)	0
	Camera Type (F)	1
	Camera Type (G)	0
	Camera Type (I)	0
	Camera Type (J)	0
	Camera Type (K)	0
	Camera Type (L)	0
	Camera Type (M)	0
	Camera Type (N)	0
	Switch Type A	0
	Switch Type B	0
	Switch Type C	0
	Switch Type D	0
	Media Converter (M-C)	0
	Client	0
	Projector	0
	4Meters Mast	1
	6Meters Mast	0
	10Meters Mast	0
	Support (S)	2
	Mountinf Camera Trap	0
	Control Room	
	Height indicator	

Project: Jey Oil Refining Company		
Title: Map Location Equipment		
Place: Drum Filling Area		
Plan Number: Jey Oil_cam_p(b-a)_950124_00		
Employer: 	Consultant: 	Designer:
Scale: 1:600	Detail Designer ☐ General Designer ☒	Page:13 Of: 29

Internal Visit			
Amir Jamali	Milad Hajati	Behzad Farahani	95/03/01
Producer	Producer	Seconder	Date

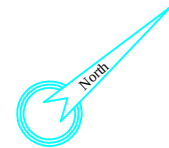
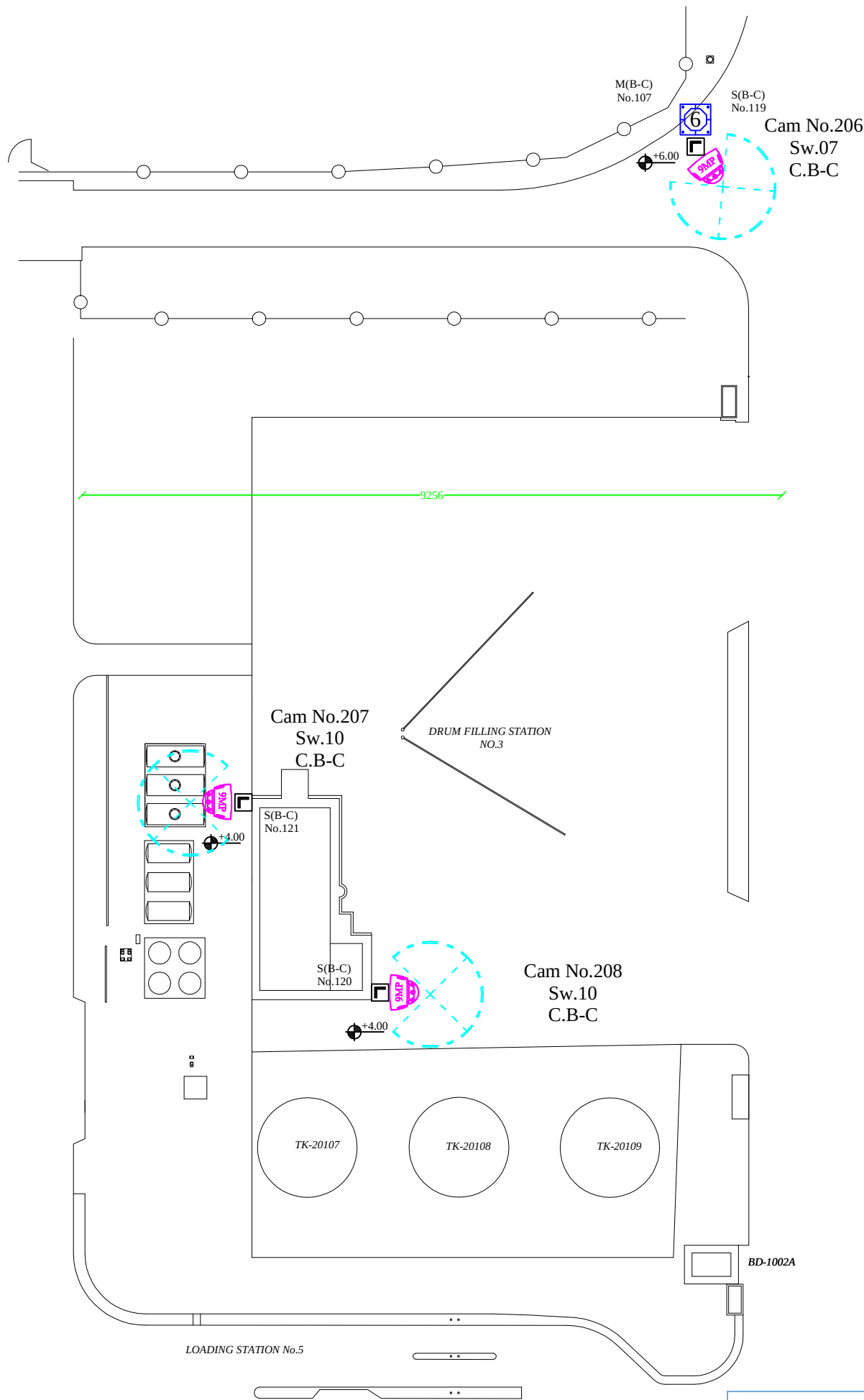
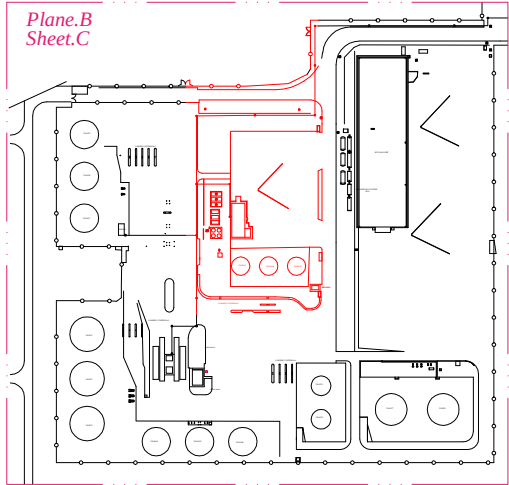


Guidence Map

Symbol	Description	Number
	Camera Type (A)	0
	Camera Type (B)	0
	Camera Type (C)	0
	Camera Type (D)	0
	Camera Type (E)	0
	Camera Type (F)	3
	Camera Type (G)	0
	Camera Type (I)	0
	Camera Type (J)	0
	Camera Type (K)	0
	Camera Type (L)	0
	Camera Type (M)	0
	Camera Type (N)	0
	Switch Type A	0
	Switch Type B	0
	Switch Type C	1
	Switch Type D	0
	Media Converter (M-C)	0
	Client	0
	Projector	0
	4Meters Mast	0
	6Meters Mast	0
	10Meters Mast	0
	Support (S)	3
	Mountinf Camera Trap	0
	Control Room	
	Height indicator	

Project: Jey Oil Refining Company		
Title: Map Location Equipment		
Place: Drum Filling Area		
Plan Number: Jey Oil_cam_p(b-b)_950124_00		
Employer: 	Consultant: 	Designer:
Scale: 1:600	Detail Designer ☐ Deneral Designer ☒	Page:14 Of: 29

Internal Visit			
Amir Jamali	Milad Hajati	Behzad Farahani	95/03/01
Producer	Producer	Seconder	Date



Guidence Map

Symbol	Description	Number
	Camera Type (A)	0
	Camera Type (B)	0
	Camera Type (C)	0
	Camera Type (D)	0
	Camera Type (E)	0
	Camera Type (F)	3
	Camera Type (G)	0
	Camera Type (I)	0
	Camera Type (J)	0
	Camera Type (K)	0
	Camera Type (L)	0
	Camera Type (M)	0
	Camera Type (N)	0
	Switch Type A	0
	Switch Type B	0
	Switch Type C	0
	Switch Type D	0
	Media Converter (M-C)	0
	Client	0
	Projector	0
	4Meters Mast	0
	6Meters Mast	1
	10Meters Mast	0
	Support (S)	3
	Mountinf Camera Trap	0
	Control Room	
	Height indicator	

Project: **Jey Oil Refining Company**

Title: **Map Location Equipment**

Place: **Drum Filling Area**

Plan Number: **Jey Oil_cam_p(b-c)_950124_00**

Employer:



Consultant:



Designer:



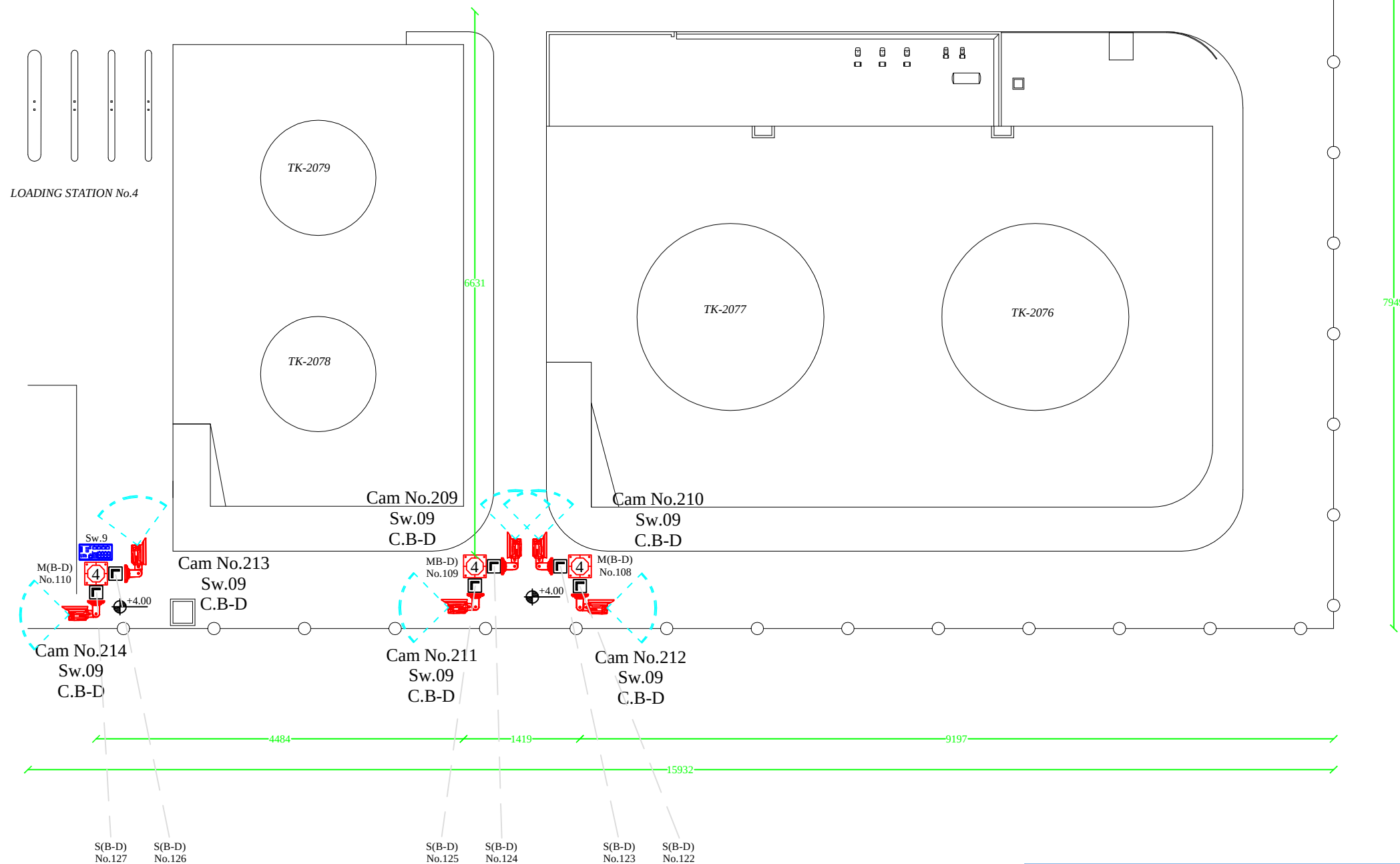
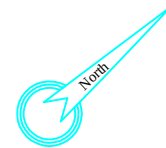
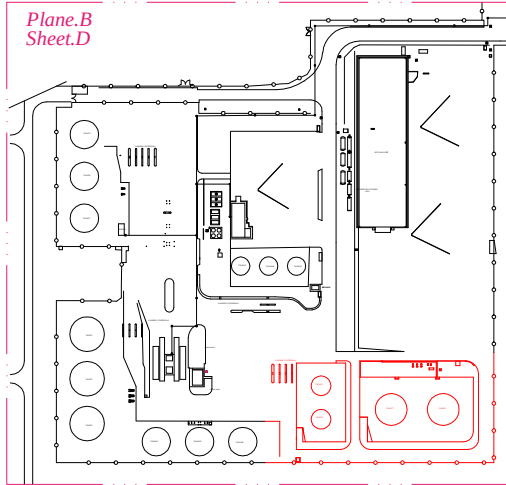
Scale: 1:700

Detail Designer

☐ Deneral Designer

Page:15 Of: 29

Internal Visit			
Amir Jamali	Milad Hajati	Behzad Farahani	95/03/01
Producer	Producer	Seconder	Date

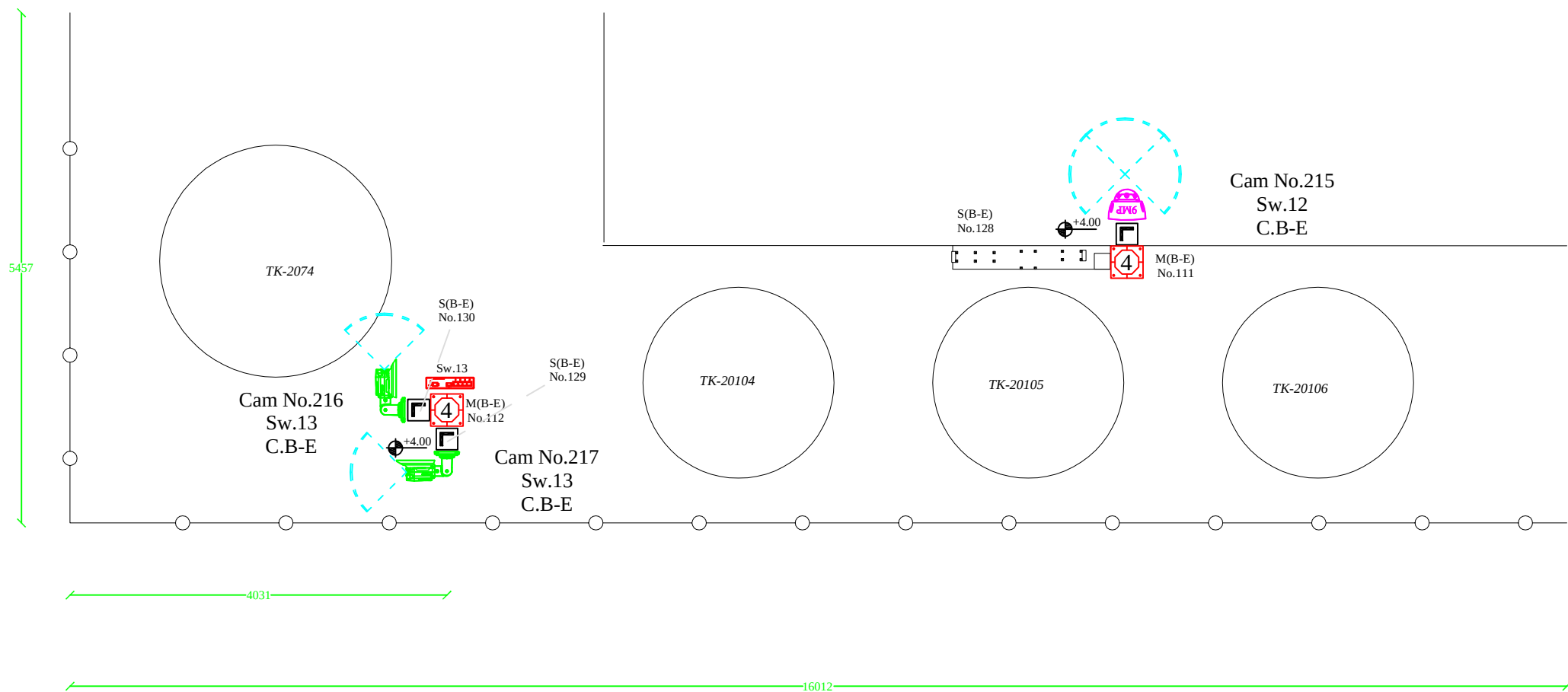
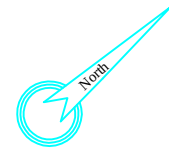
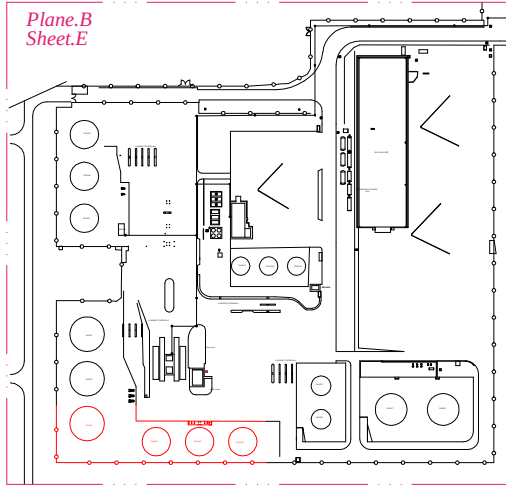


Guidence Map

Symbol	Description	Number
	Camera Type (A)	0
	Camera Type (B)	6
	Camera Type (C)	0
	Camera Type (D)	0
	Camera Type (E)	0
	Camera Type (F)	0
	Camera Type (G)	0
	Camera Type (I)	0
	Camera Type (J)	0
	Camera Type (K)	0
	Camera Type (L)	0
	Camera Type (M)	0
	Camera Type (N)	0
	Switch Type A	0
	Switch Type B	0
	Switch Type C	0
	Switch Type D	1
	Media Converter (M-C)	0
	Client	0
	Projector	0
	4Meters Mast	3
	6Meters Mast	0
	10Meters Mast	0
	Support (S)	6
	Mountinf Camera Trap	0
	Control Room	
	Height indicator	

Project: Jey Oil Refining Company		
Title: Map Location Equipment		
Place: Entrance Area		
Plan Number: Jey Oil_cam_p(b-d)_950124_00		
Employer: 	Consultant: 	Designer:
Scale: 1:600	Detail Designer ☐ General Designer ☒	Page:16 Of: 29

Internal Visit			
Amir Jamali	Milad Hajati	Behzad Farahani	95/03/01
Producer	Producer	Seconder	Date



Guidence Map

Symbol	Description	Number
	Camera Type (A)	0
	Camera Type (B)	0
	Camera Type (C)	0
	Camera Type (D)	2
	Camera Type (E)	0
	Camera Type (F)	1
	Camera Type (G)	0
	Camera Type (I)	0
	Camera Type (J)	0
	Camera Type (K)	0
	Camera Type (L)	0
	Camera Type (M)	0
	Camera Type (N)	0
	Switch Type A	0
	Switch Type B	0
	Switch Type C	1
	Switch Type D	0
	Media Converter (M-C)	0
	Client	0
	Projector	0
	4Meters Mast	2
	6Meters Mast	0
	10Meters Mast	0
	Support (S)	3
	Mountinf Camera Trap	0
	Control Room	
	Height indicator	

Project: **Jey Oil Refining Company**

Title: **Map Location Equipment**

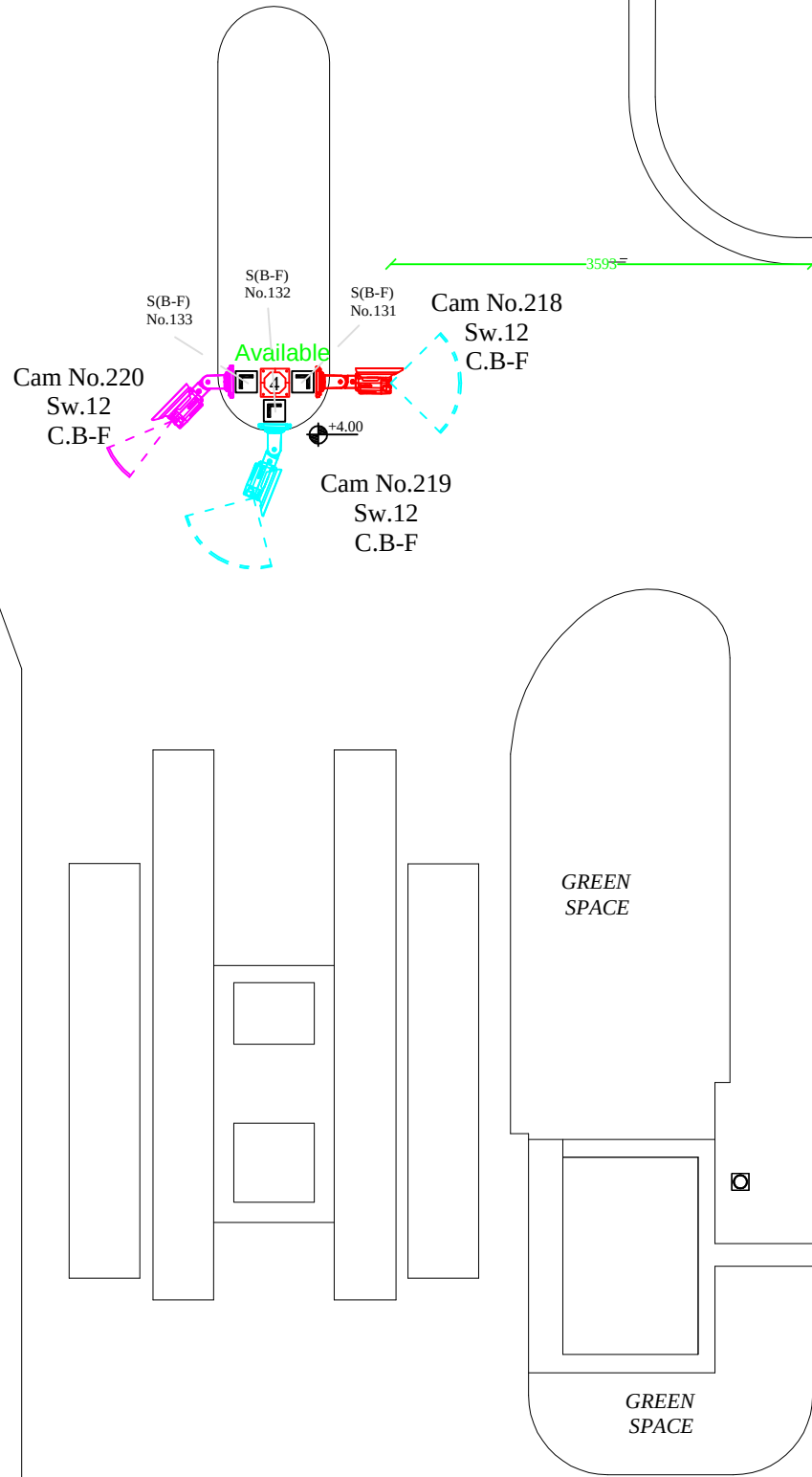
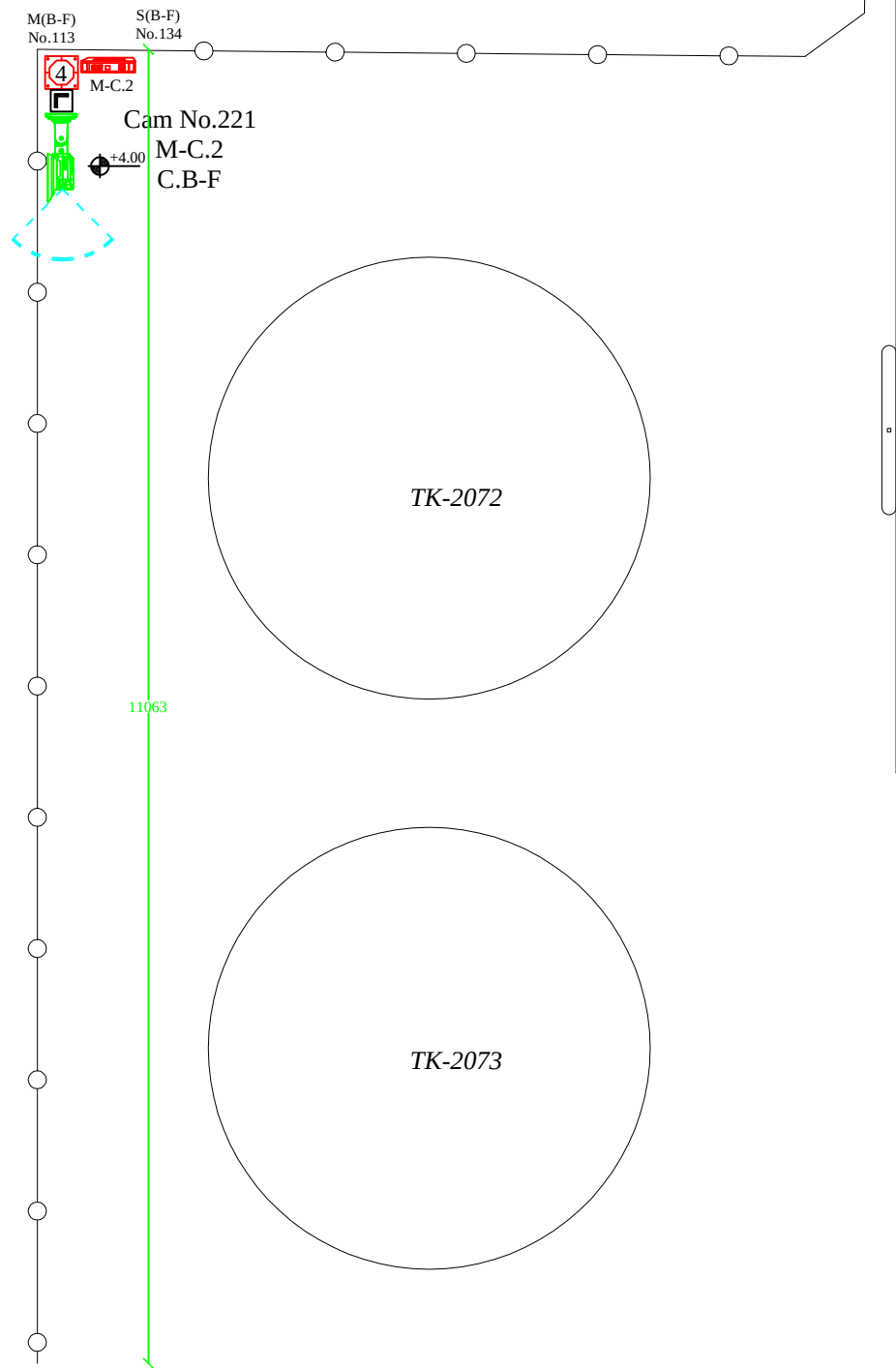
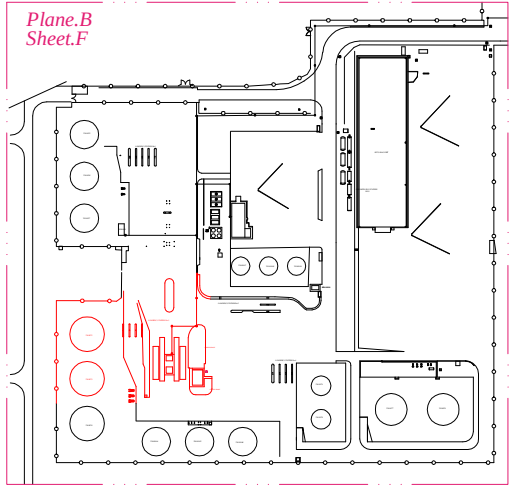
Place: **Entrance Area**

Plan Number: **Jey Oil_cam_p(b-e)_950124_00**

Employer: 	Consultant: 	Designer:
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Scale: 1:600 Detail Designer ☐ Deneral Designer ☒ Page:17 Of: 29

Internal Visit			
Amir Jamali	Milad Hajati	Behzad Farahani	95/03/01
Producer	Producer	Seconder	Date

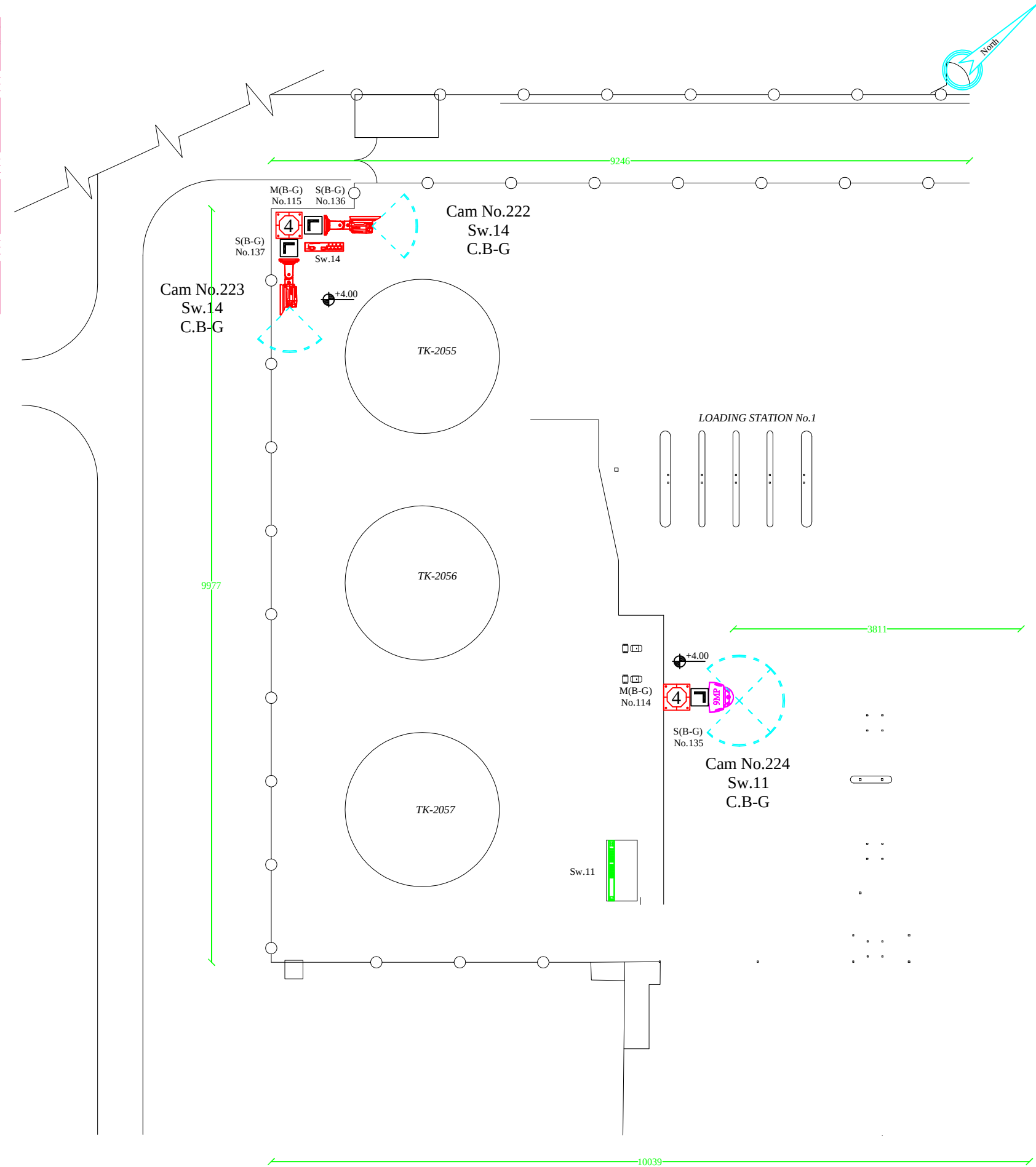
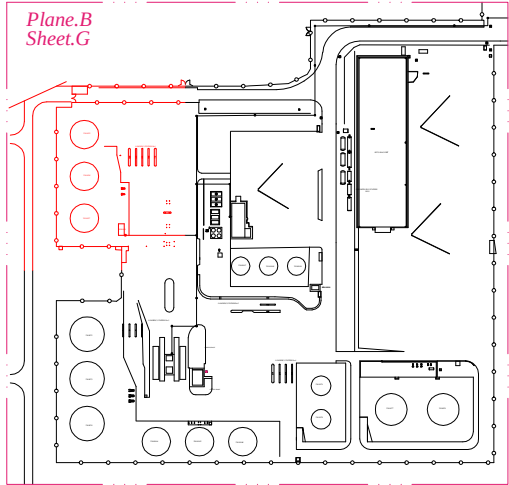


Guidence Map

Symbol	Description	Number
	Camera Type (A)	1
	Camera Type (B)	1
	Camera Type (C)	1
	Camera Type (D)	1
	Camera Type (E)	0
	Camera Type (F)	0
	Camera Type (G)	0
	Camera Type (I)	0
	Camera Type (J)	0
	Camera Type (K)	0
	Camera Type (L)	0
	Camera Type (M)	0
	Camera Type (N)	0
	Switch Type A	0
	Switch Type B	0
	Switch Type C	0
	Switch Type D	0
	Media Converter (M-C)	1
	Client	0
	Projector	0
	4Meters Mast	1
	6Meters Mast	0
	10Meters Mast	0
	Support (S)	4
	Mountinf Camera Trap	0
	Control Room	
	Height indicator	

Project:	Jey Oil Refining Company		
Title:	Map Location Equipment		
Place:	Weighbridge Unite Area		
Plan Number:	Jey Oil_cam_p(b-f)_950124_00		
Employer:	Consultant:	Designer:	
Scale: 1:600	Detail Designer	☐ Deneral Designer	☒ Page:18 Of: 29

Internal Visit			
Amir Jamali	Milad Hajati	Behzad Farahani	95/03/01
Producer	Producer	Seconder	Date



Guidence Map

Symbol	Description	Number
	Camera Type (A)	0
	Camera Type (B)	2
	Camera Type (C)	0
	Camera Type (D)	0
	Camera Type (E)	0
	Camera Type (F)	1
	Camera Type (G)	0
	Camera Type (I)	0
	Camera Type (J)	0
	Camera Type (K)	0
	Camera Type (L)	0
	Camera Type (M)	0
	Camera Type (N)	0
	Switch Type A	0
	Switch Type B	1
	Switch Type C	1
	Switch Type D	0
	Media Converter (M-C)	0
	Client	0
	Projector	0
	4Meters Mast	2
	6Meters Mast	0
	10Meters Mast	0
	Support (S)	3
	Mountinf Camera Trap	0
	Control Room	
	Height indicator	

Project: **Jey Oil Refining Company**

Title: **Map Location Equipment**

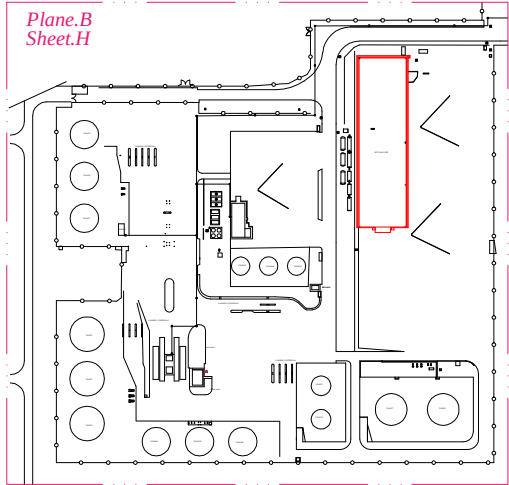
Place: **Loading Station Area**

Plan Number: **Jey Oil_cam_p(b-g)_950124_00**

Employer: 	Consultant: 	Designer:
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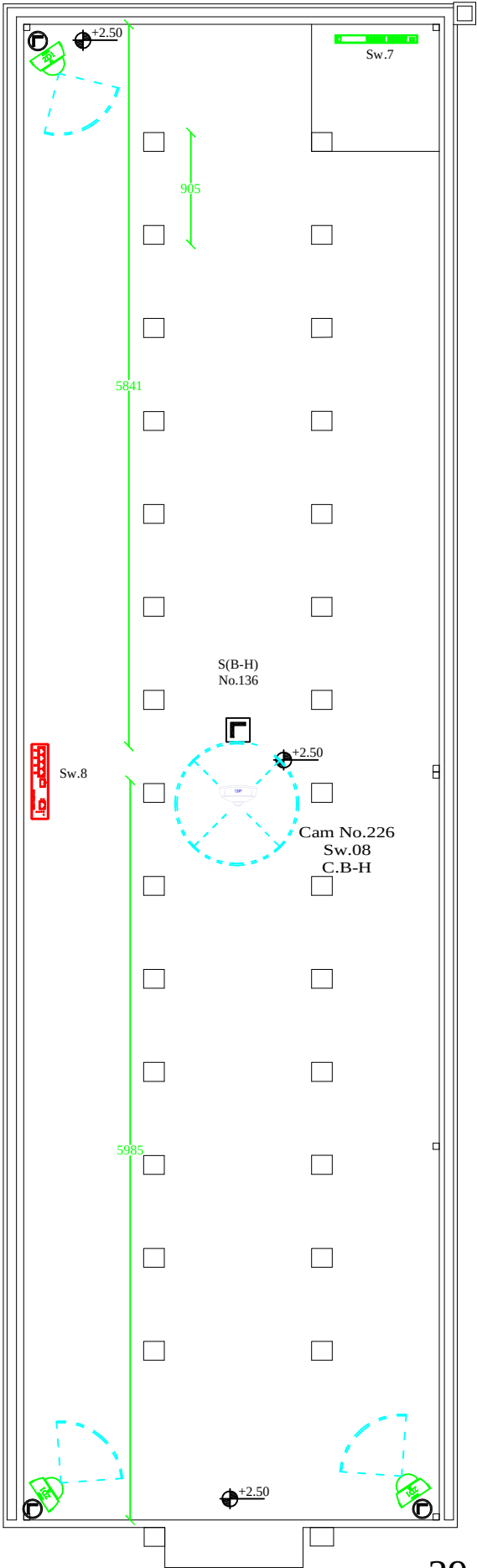
Scale: 1:600 Detail Designer ☐ Deneral Designer ☒ Page:19 Of: 29

Internal Visit			
Amir Jamali	Milad Hajati	Behzad Farahani	95/03/01
Producer	Producer	Seconder	Date



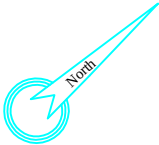
Cam No.225
Sw.07
C.B-H

12324



Cam No.228
Sw.08
C.B-H

39

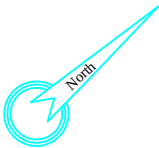
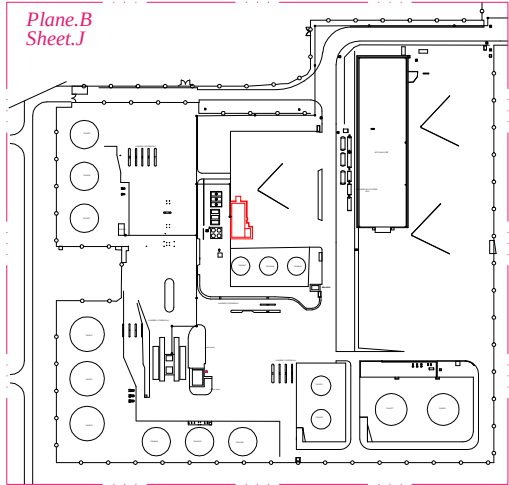


Guidence Map

Symbol	Description	Number
	Camera Type (A)	0
	Camera Type (B)	0
	Camera Type (C)	0
	Camera Type (D)	0
	Camera Type (E)	1
	Camera Type (F)	0
	Camera Type (G)	0
	Camera Type (I)	0
	Camera Type (J)	0
	Camera Type (K)	0
	Camera Type (L)	3
	Camera Type (M)	0
	Camera Type (N)	0
	Switch Type A	0
	Switch Type B	1
	Switch Type C	1
	Switch Type D	0
	Media Converter (M-C)	0
	Client	0
	Projector	0
	4Meters Mast	0
	6Meters Mast	0
	10Meters Mast	0
	Support (S)	1
	Mountinf Camera Trap	3
	Control Room	
	Height indicator	

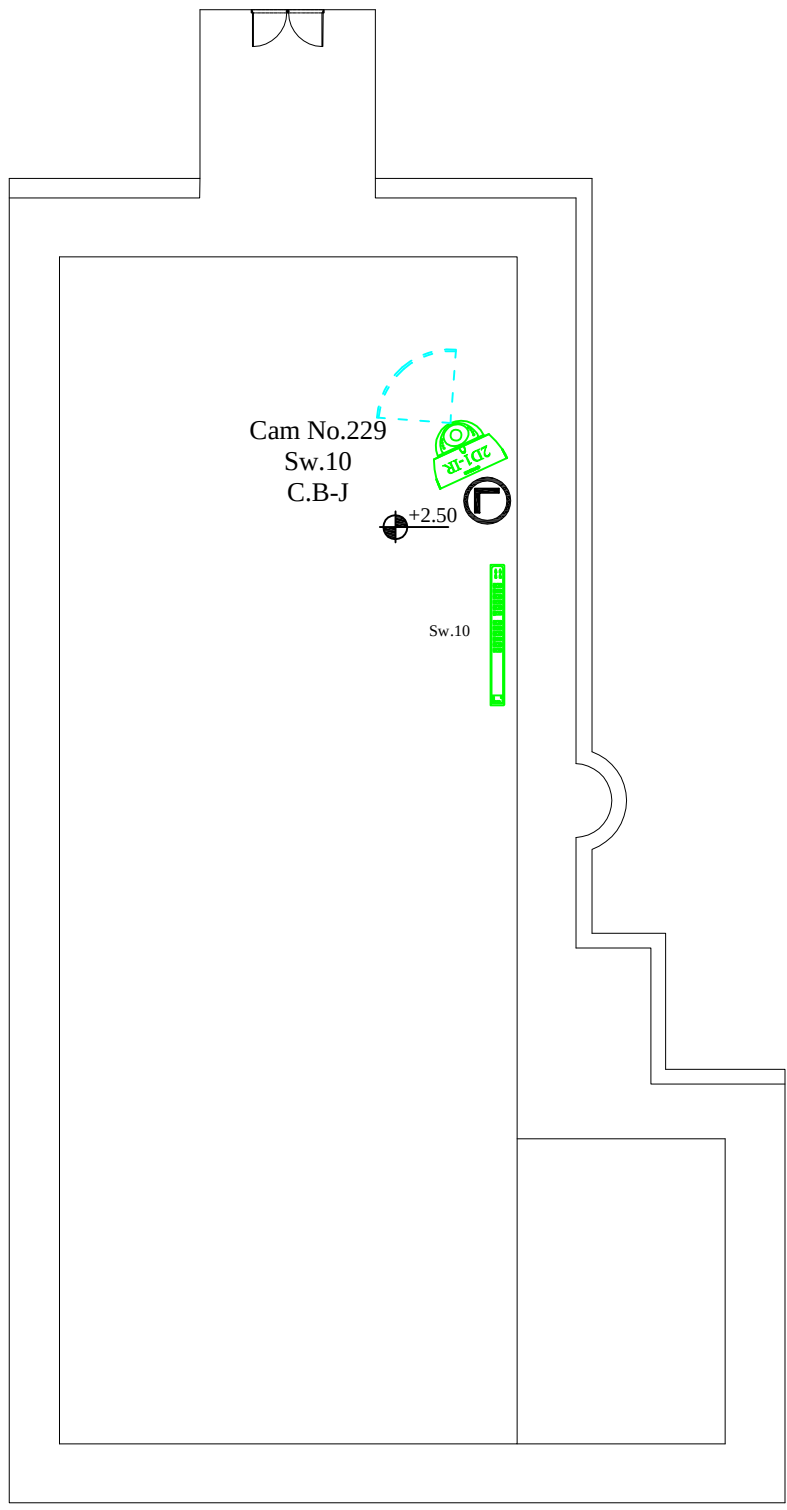
Project: Jey Oil Refining Company		
Title: Map Location Equipment		
Place: Bitu-Bag Unit		
Plan Number: Jey Oil_cam_p(b-h)_950124_00		
Employer: 	Consultant: 	Designer:
Scale: 1:500	Detail Designer ☐ Deneral Designer ☒	Page: 20 Of: 29

Internal Visit			
Amir Jamali	Milad Hajati	Behzad Farahani	95/03/01
Producer	Producer	Seconder	Date



383

2657

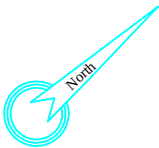
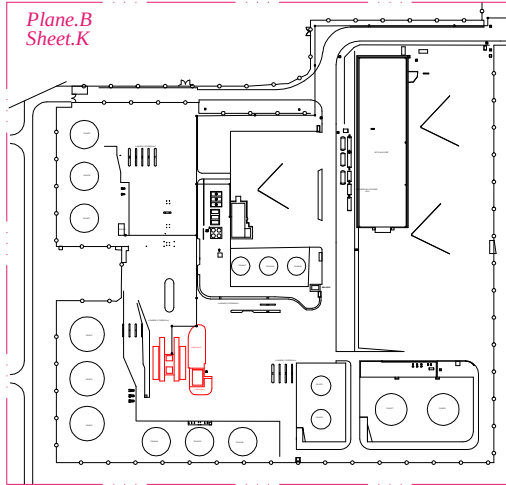


1580

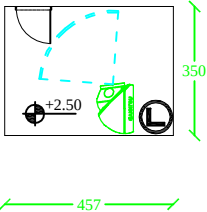
Guidence Map

Symbol	Description	Number
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	Camera Type (B)	0
	Camera Type (C)	0
	Camera Type (D)	0
	Camera Type (E)	0
	Camera Type (F)	0
	Camera Type (G)	0
	Camera Type (I)	0
	Camera Type (J)	0
	Camera Type (K)	1
	Camera Type (L)	0
	Camera Type (M)	0
	Camera Type (N)	0
	Switch Type A	0
	Switch Type B	1
	Switch Type C	0
	Switch Type D	0
	Media Converter (M-C)	0
	Client	0
	Projector	0
	4Meters Mast	0
	6Meters Mast	0
	10Meters Mast	0
	Support (S)	0
	Mountinf Camera Trap	1
	Control Room	
	Height indicator	

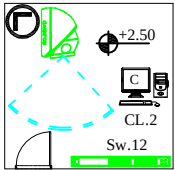
Project: Jey Oil Refining Company		
Title: Map Location Equipment		
Place: Drum Filling Building		
Plan Number: Jey Oil_cam_p(b-j)_950124_00		
Employer: 	Consultant: 	Designer:
Scale: 1:150	Detail Designer ☐ Deneral Designer ☒	Page: 21 Of: 29



Cam No.230
Sw.12
C.B-K



Cam No.231
Sw.12
C.B-K



GREEN SPACE

GREEN SPACE

Guidence Map

Symbol	Description	Number
	Camera Type (A)	0
	Camera Type (B)	0
	Camera Type (C)	0
	Camera Type (D)	0
	Camera Type (E)	0
	Camera Type (F)	0
	Camera Type (G)	0
	Camera Type (I)	0
	Camera Type (J)	0
	Camera Type (K)	0
	Camera Type (L)	0
	Camera Type (M)	2
	Camera Type (N)	0
	Switch Type A	0
	Switch Type B	1
	Switch Type C	0
	Switch Type D	0
	Media Converter (M-C)	0
	Client	1
	Projector	0
	4Meters Mast	0
	6Meters Mast	0
	10Meters Mast	0
	Support (S)	0
	Mountinf Camera Trap	2
	Control Room	
	Height indicator	

Project: Jey Oil Refining Company

Title: Map Location Equipment

Place: Weighbridge Unite

Plan Number: Jey Oil_cam_p(b-k)_950124_00

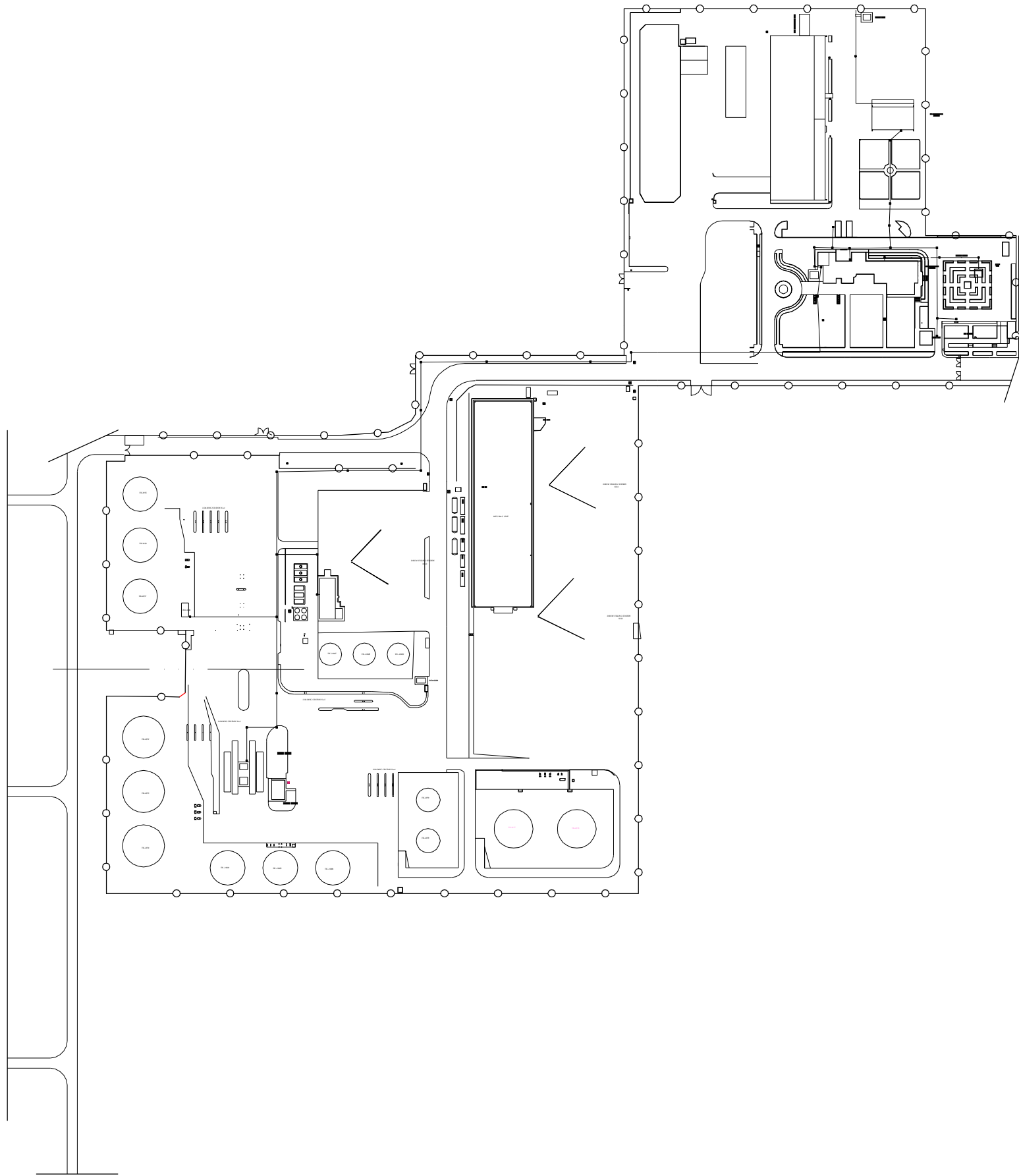
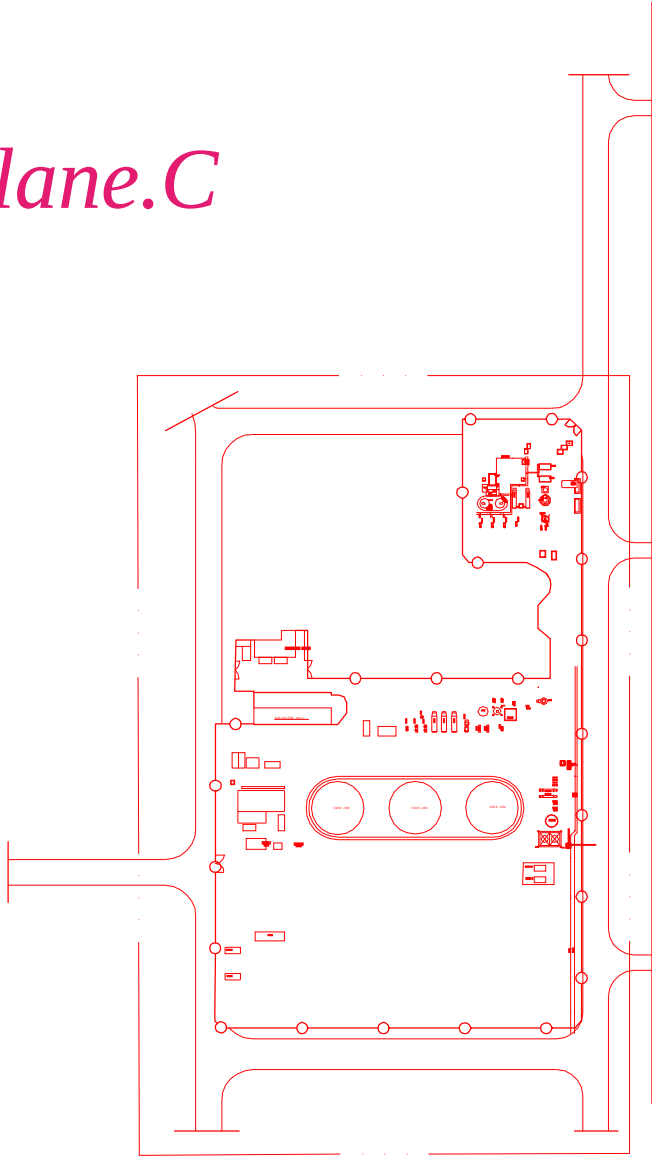
Employer: 	Consultant: 	Designer:
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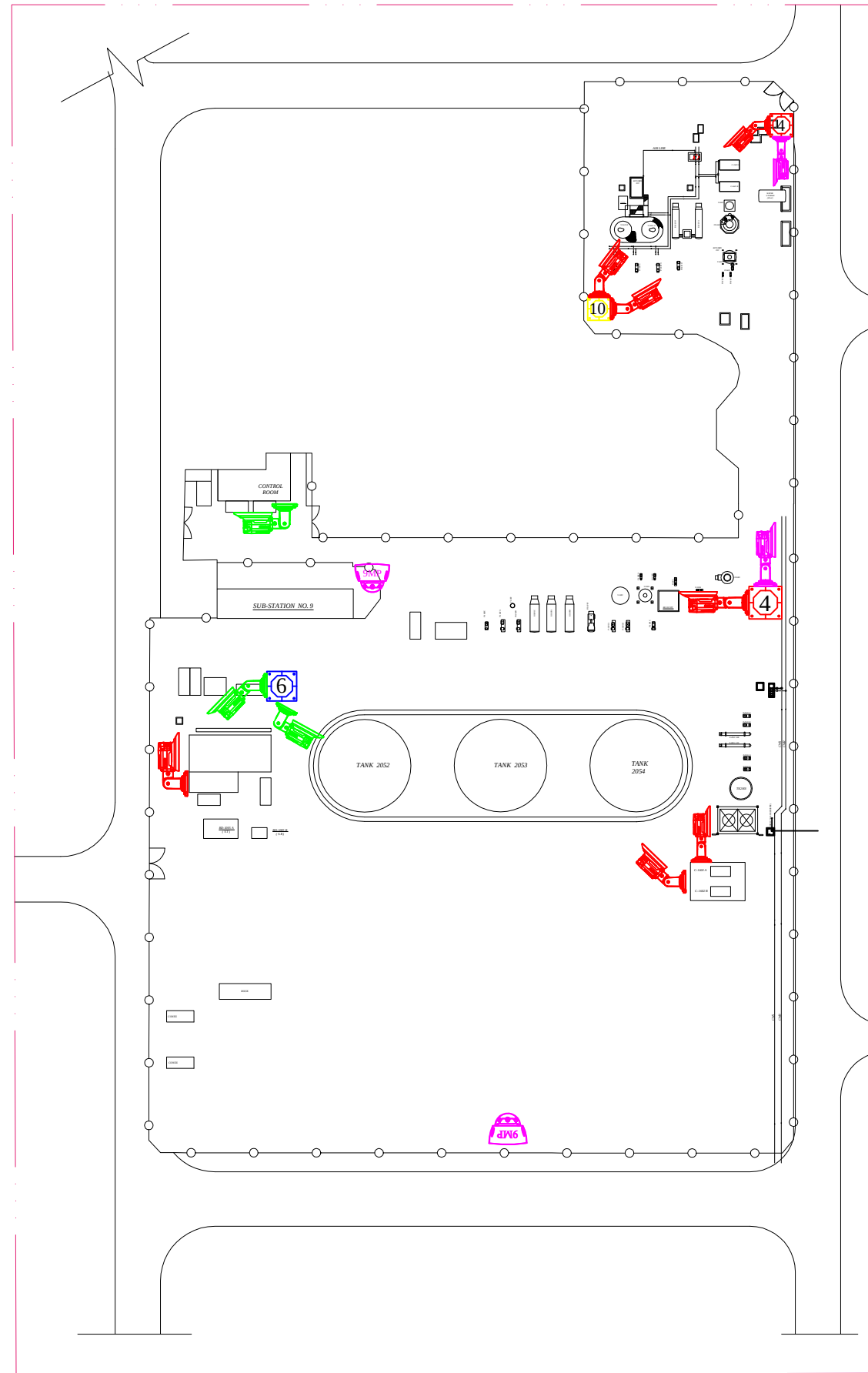
Scale: 1:200 Detail Designer ☐ Deneral Designer ☒ Page: 22 Of: 29

Internal Visit			
Amir Jamali	Milad Hajati	Behzad Farahani	95/03/01
Producer	Producer	Seconder	Date

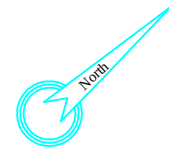
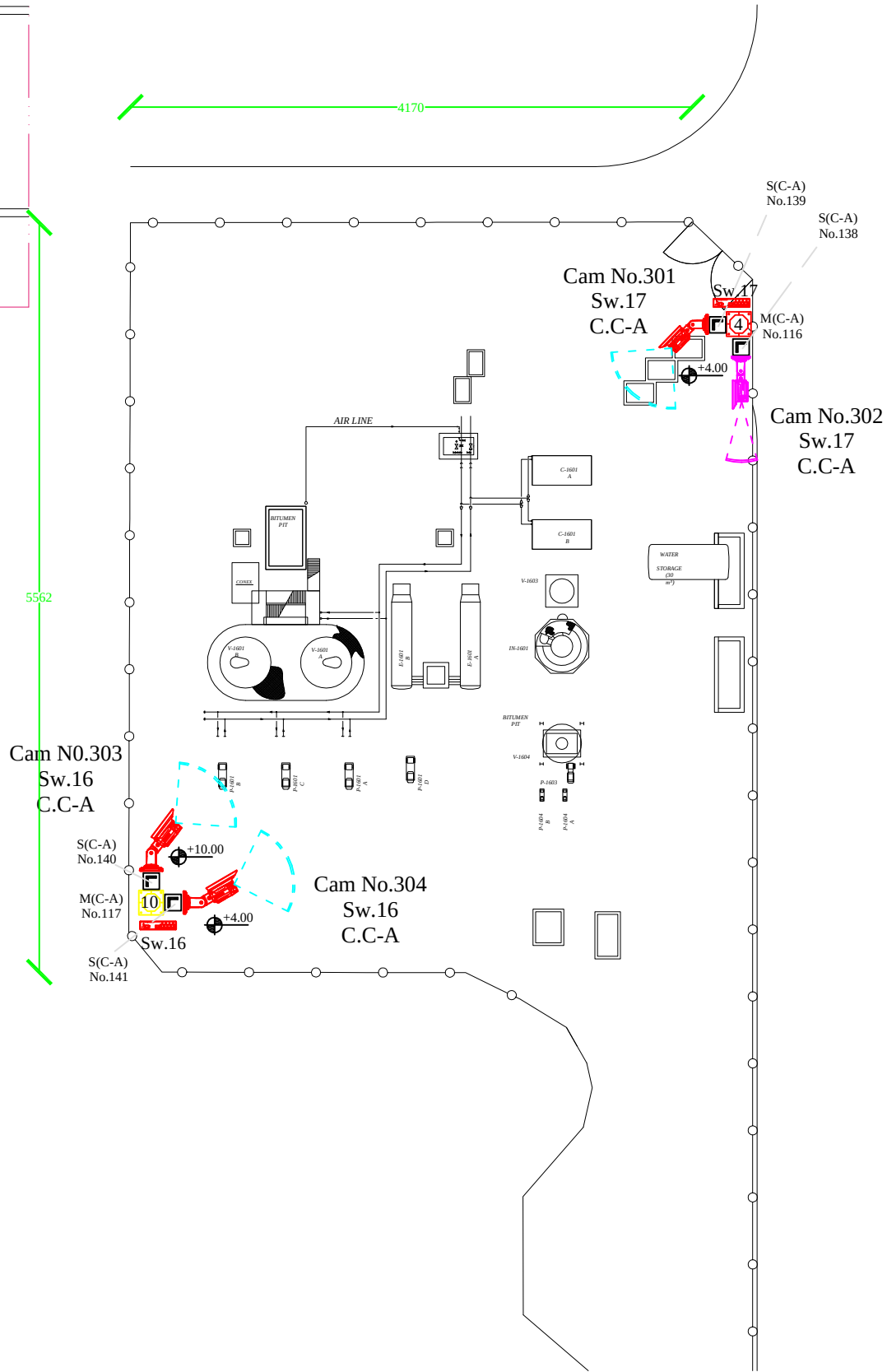
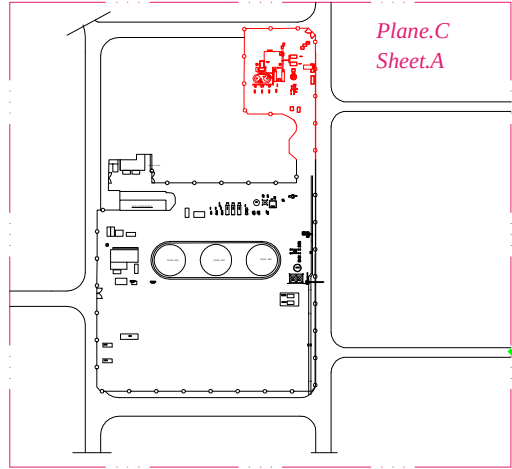
Plane C-Production

Plane.C





Plane.C

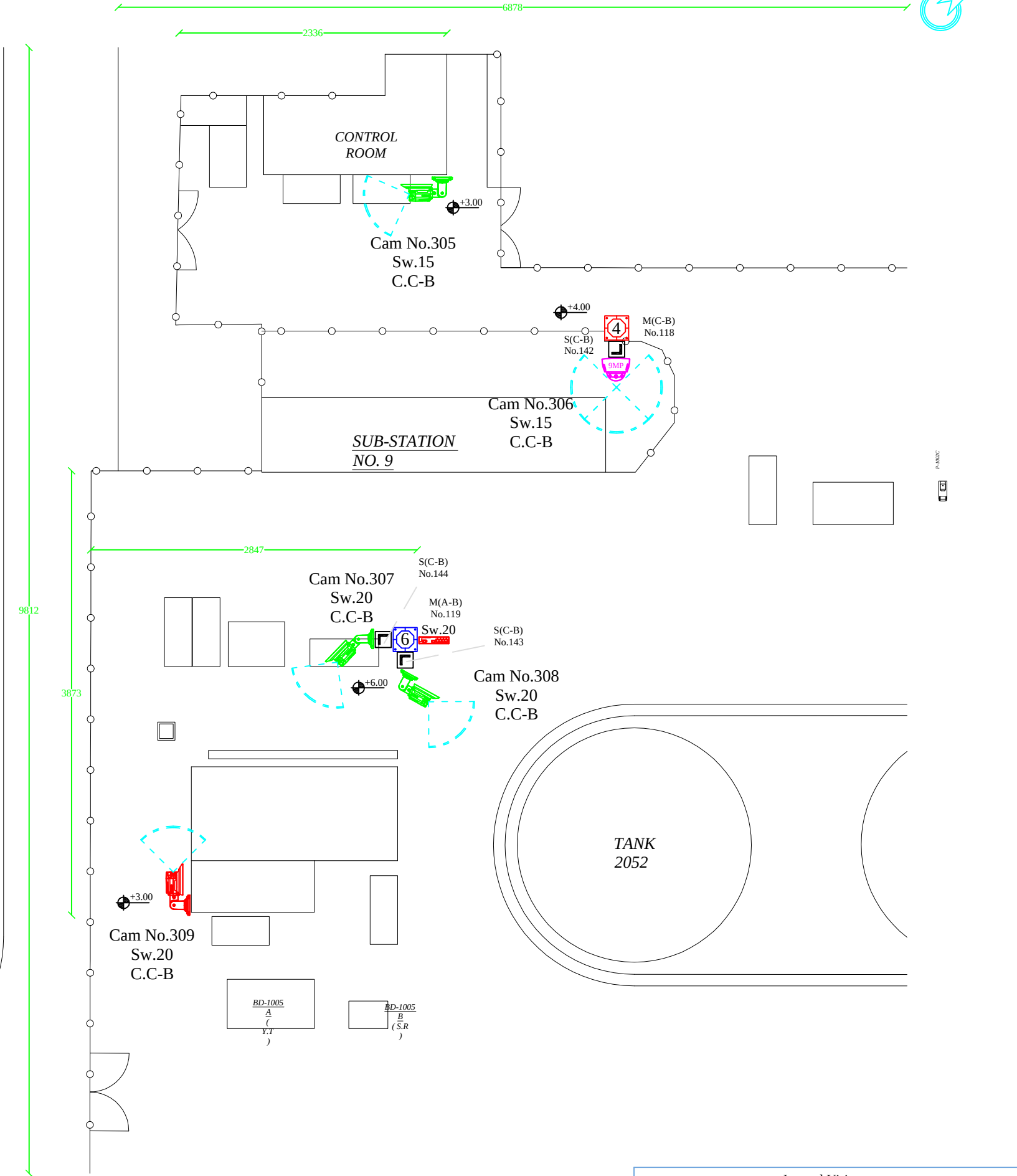
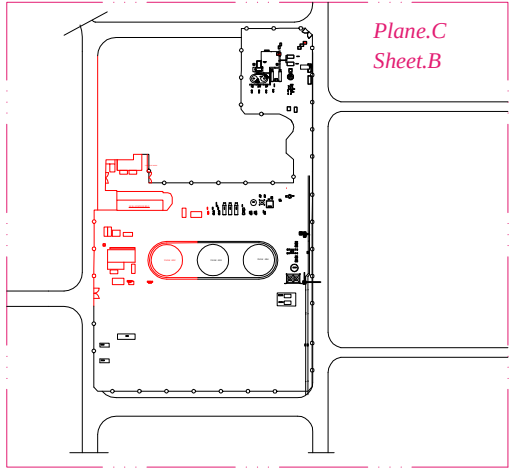


Guidence Map

Symbol	Description	Number
	Camera Type (A)	0
	Camera Type (B)	3
	Camera Type (C)	1
	Camera Type (D)	0
	Camera Type (E)	0
	Camera Type (F)	0
	Camera Type (G)	0
	Camera Type (I)	0
	Camera Type (J)	0
	Camera Type (K)	0
	Camera Type (L)	0
	Camera Type (M)	0
	Camera Type (N)	0
	Switch Type A	0
	Switch Type B	0
	Switch Type C	2
	Switch Type D	0
	Media Converter (M-C)	0
	Client	0
	Projector	0
	4Meters Mast	1
	6Meters Mast	0
	10Meters Mast	1
	Support (S)	4
	Mountinf Camera Trap	0
	Control Room	
	Height indicator	

Project:	Jey Oil Refining Company		
Title:	Map Location Equipment		
Place:	Production Environment 1		
Plan Number:	Jey Oil_cam_p(c-a)_950124_00		
Employer:	Consultant:	Designer:	
Scale: 1:450	Detail Designer ☐	Deneral Designer ☒	Page: 23 Of: 29

Internal Visit			
Amir Jamali	Milad Hajati	Behzad Farahani	95/03/01
Producer	Producer	Secunder	Date



Guidence Map

Symbol	Description		Number
	Camera Type	(A)	0
	Camera Type	(B)	1
	Camera Type	(C)	0
	Camera Type	(D)	3
	Camera Type	(E)	0
	Camera Type	(F)	1
	Camera Type	(G)	0
	Camera Type	(I)	0
	Camera Type	(J)	0
	Camera Type	(K)	0
	Camera Type	(L)	0
	Camera Type	(M)	0
	Camera Type	(N)	0
	Switch Type A		0
	Switch Type B		0
	Switch Type C		0
	Switch Type D		0
	Media Converter	(M-C)	0
	Client		0
	Projector		0
	4Meters Mast		1
	6Meters Mast		1
	10Meters Mast		0
	Support	(S)	3
	Mountinf Camera Trap		0
	Control Room		
	Height indicator		

Project:

Jey Oil Refining Company

Title:

Map Location Equipment

Place:

Production Environment 3

Plan Number:

Jey Oil_cam_p(c-b)_950124_00

Employer:

Consultant:

Designer:

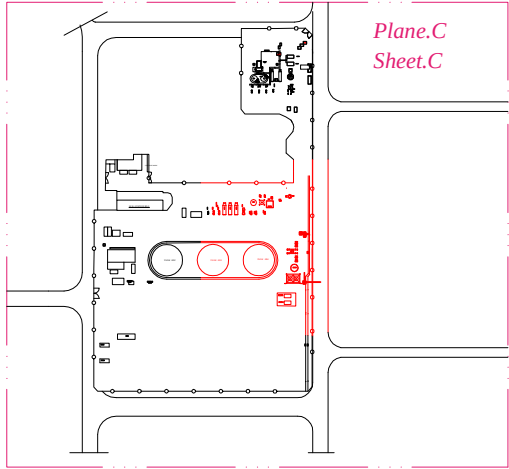
Scale: 1:400

Detail Designer ☐

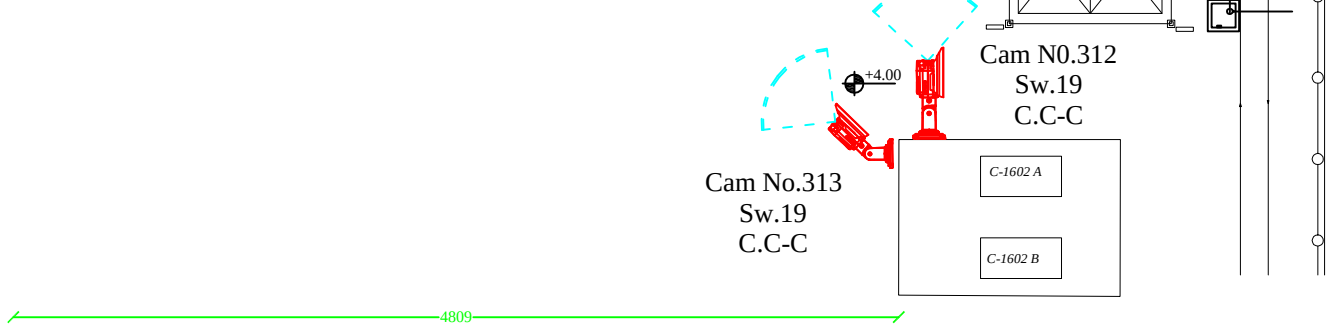
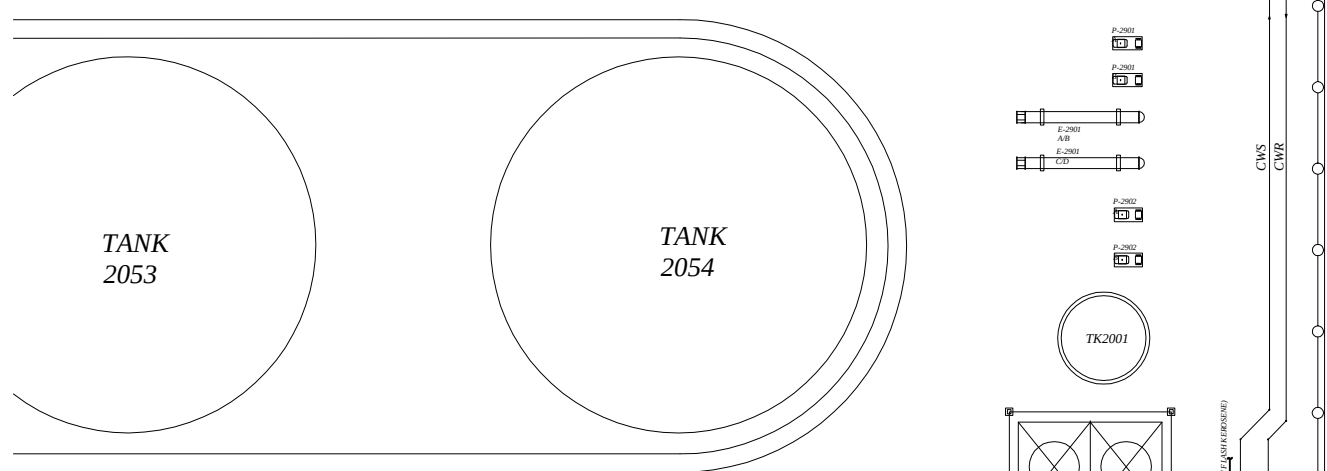
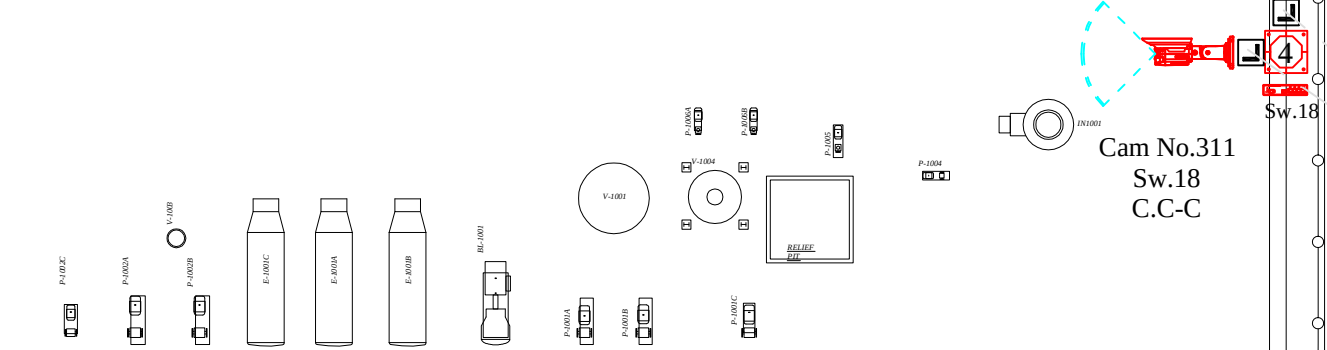
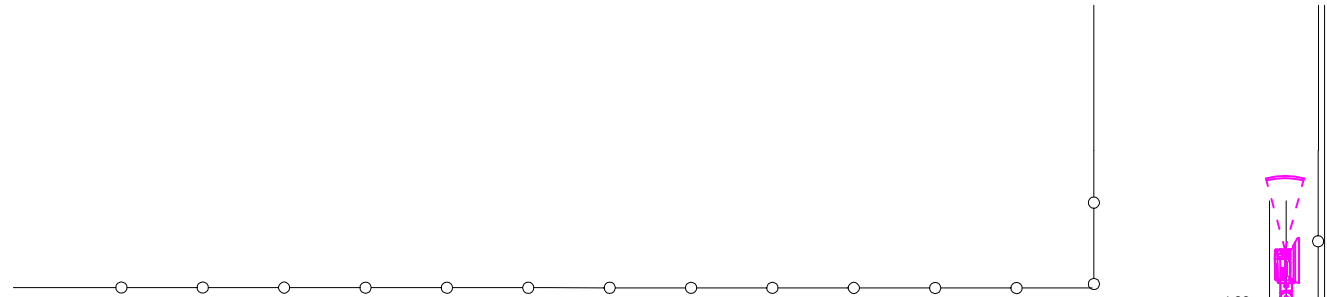
Deneral Designer ☒

Page: 24 Of: 29

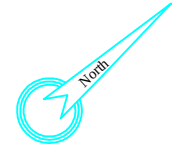
Internal Visit			
Amir Jamali	Milad Hajati	Behzad Farahani	95/03/01
Producer	Producer	Seconder	Date



7122



4809



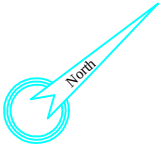
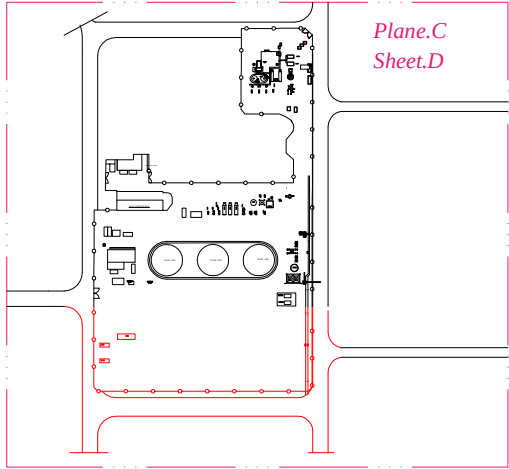
9424

Guidence Map

Symbol	Description	Number
	Camera Type (A)	0
	Camera Type (B)	3
	Camera Type (C)	1
	Camera Type (D)	0
	Camera Type (E)	0
	Camera Type (F)	0
	Camera Type (G)	0
	Camera Type (I)	0
	Camera Type (J)	0
	Camera Type (K)	0
	Camera Type (L)	0
	Camera Type (M)	0
	Camera Type (N)	0
	Switch Type A	0
	Switch Type B	0
	Switch Type C	1
	Switch Type D	0
	Media Converter (M-C)	0
	Client	0
	Projector	0
	4Meters Mast	1
	6Meters Mast	0
	10Meters Mast	0
	Support (S)	3
	Mountinf Camera Trap	0
	Control Room	
	Height indicator	

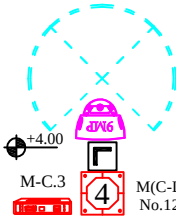
Project: Jey Oil Refining Company		
Title: Map Location Equipment		
Place: Production Environment 2		
Plan Number: Jey Oil_cam_p(c-c)_950124_00		
Employer:	Consultant:	Designer:
Scale: 1:400	Detail Designer ☐ Deneral Designer ☒	Page: 25 Of: 29

Internal Visit			
Amir Jamali	Milad Hajati	Behzad Farahani	95/03/01
Producer	Producer	Seconder	Date



-13715

6089



Cam No.314
M-C.3
C.C-D

S(C-D)
No.146

Guidence Map

Symbol	Description	Number
	Camera Type (A)	0
	Camera Type (B)	0
	Camera Type (C)	0
	Camera Type (D)	0
	Camera Type (E)	0
	Camera Type (F)	1
	Camera Type (G)	0
	Camera Type (I)	0
	Camera Type (J)	0
	Camera Type (K)	0
	Camera Type (L)	0
	Camera Type (M)	0
	Camera Type (N)	0
	Switch Type A	0
	Switch Type B	0
	Switch Type C	0
	Switch Type D	0
	Media Converter (M-C)	1
	Client	0
	Projector	0
	4Meters Mast	1
	6Meters Mast	0
	10Meters Mast	0
	Support (S)	1
	Mountinf Camera Trap	0
	Control Room	
	Height indicator	

Project: Jey Oil Refining Company

Title: Map Location Equipment

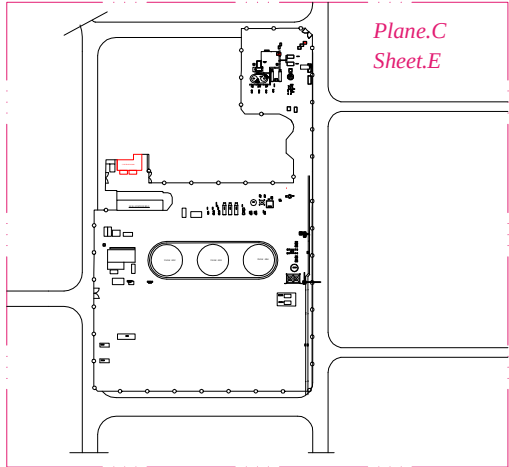
Place: Drum Filling Area

Plan Number: Jey Oil_cam_p(c-d)_950124_00

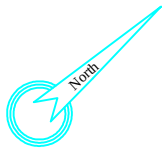
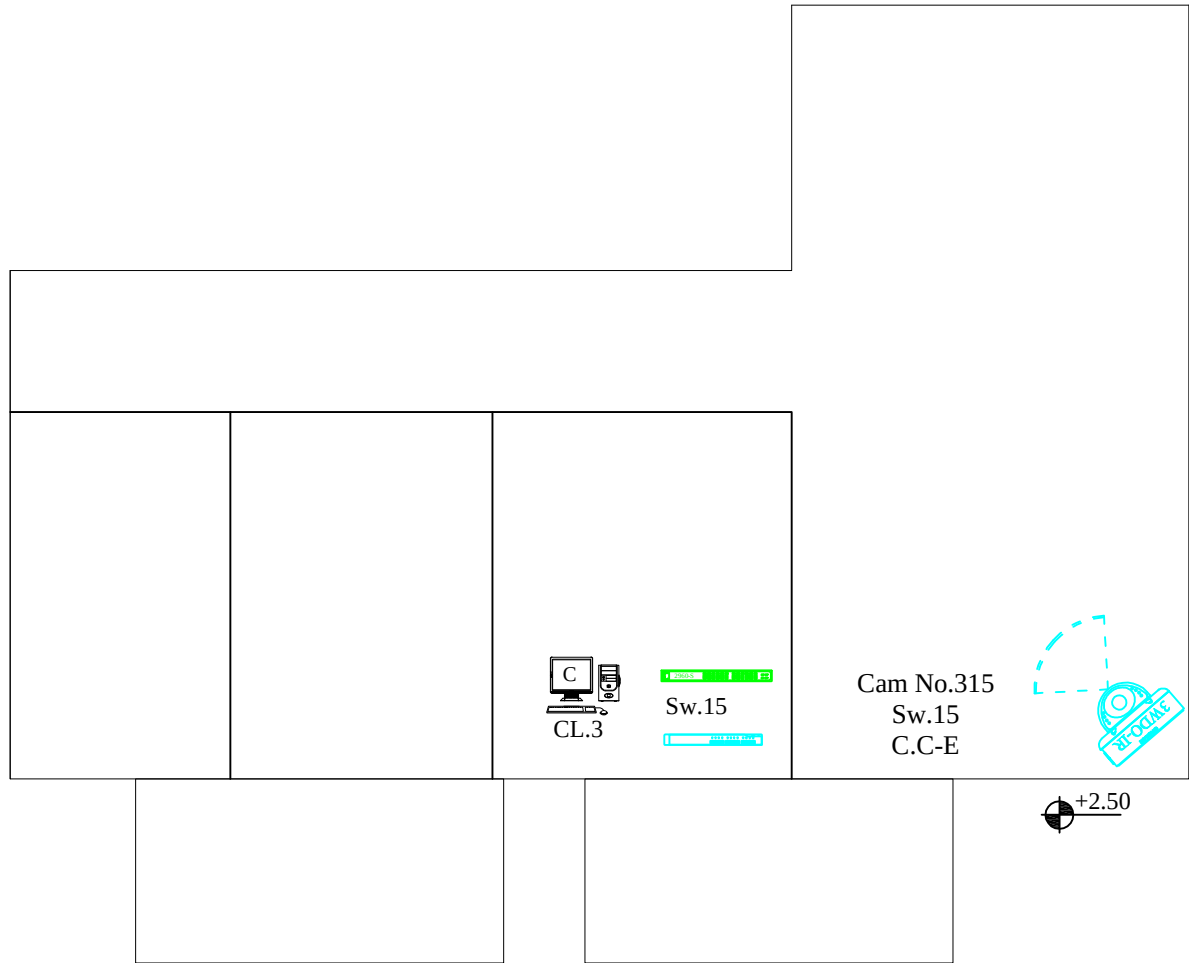
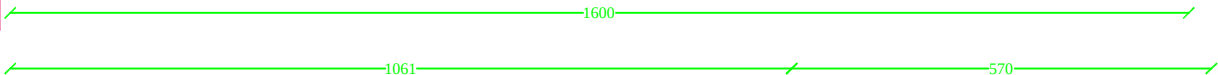
Employer: 	Consultant: 	Designer:
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Scale: 1:700 Detail Designer ☐ Deneral Designer ☒ Page:26 Of: 29

Internal Visit			
Amir Jamali	Milad Hajati	Behzad Farahani	95/03/01
Producer	Producer	Seconder	Date



Plane.C
Sheet.E



Guidence Map

Symbol	Description	Number
	Camera Type (A)	0
	Camera Type (B)	0
	Camera Type (C)	0
	Camera Type (D)	0
	Camera Type (E)	0
	Camera Type (F)	0
	Camera Type (G)	0
	Camera Type (I)	0
	Camera Type (J)	1
	Camera Type (K)	0
	Camera Type (L)	0
	Camera Type (M)	0
	Camera Type (N)	0
	Switch Type A	1
	Switch Type B	1
	Switch Type C	0
	Switch Type D	0
	Media Converter (M-C)	0
	Client	1
	Projector	0
	4Meters Mast	0
	6Meters Mast	0
	10Meters Mast	0
	Support (S)	0
	Mountinf Camera Trap	0
	Control Room	
	Height indicator	

Project: **Jey Oil Refining Company**

Title: **Map Location Equipment**

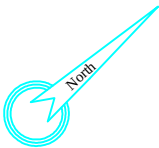
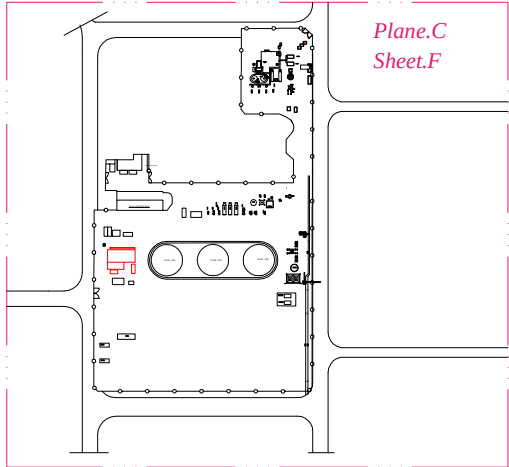
Place: **Production Control Room**

Plan Number: **Jey Oil_cam_p(c-e)_950124_00**

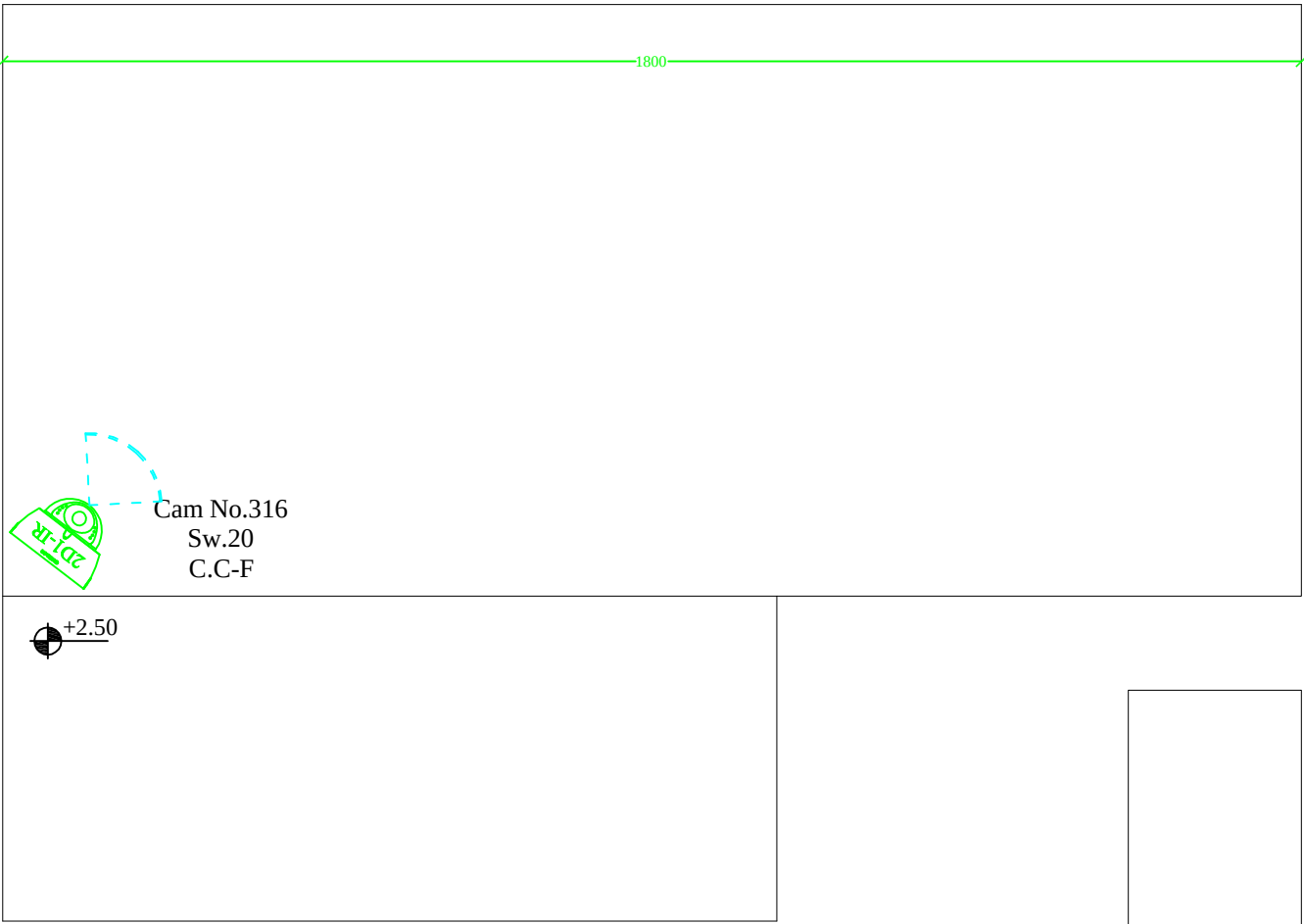
Employer: 	Consultant: 	Designer:
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Scale: 1:100 Detail Designer ☐ Deneral Designer ☒ Page: 27 Of: 29

Internal Visit			
Amir Jamali	Milad Hajati	Behzad Farahani	95/03/01
Producer	Producer	Seconder	Date



1270
820
450
0



1073

Guidence Map

Symbol	Description	Number
	Camera Type (A)	0
	Camera Type (B)	0
	Camera Type (C)	0
	Camera Type (D)	0
	Camera Type (E)	0
	Camera Type (F)	0
	Camera Type (G)	0
	Camera Type (I)	0
	Camera Type (J)	0
	Camera Type (K)	1
	Camera Type (L)	0
	Camera Type (M)	0
	Camera Type (N)	0
	Switch Type A	0
	Switch Type B	0
	Switch Type C	1
	Switch Type D	0
	Media Converter (M-C)	0
	Client	0
	Projector	0
	4Meters Mast	0
	6Meters Mast	0
	10Meters Mast	0
	Support (S)	0
	Mountinf Camera Trap	0
	Control Room	
	Height indicator	

Project: **Jey Oil Refining Company**

Title: **Map Location Equipment**

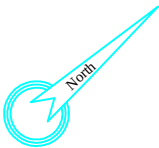
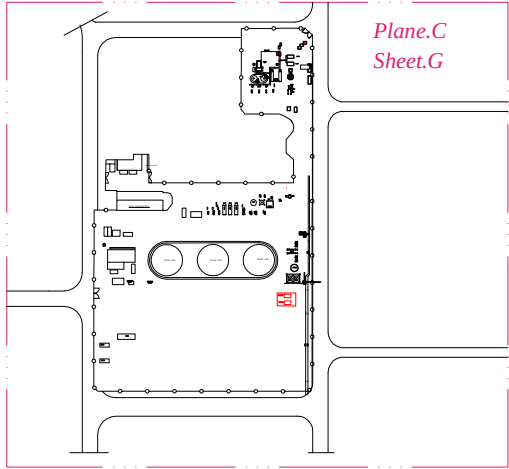
Place: **Were House Production**

Plan Number: **Jey Oil_cam_p(c-f)_950124_00**

Employer: 	Consultant: 	Designer:
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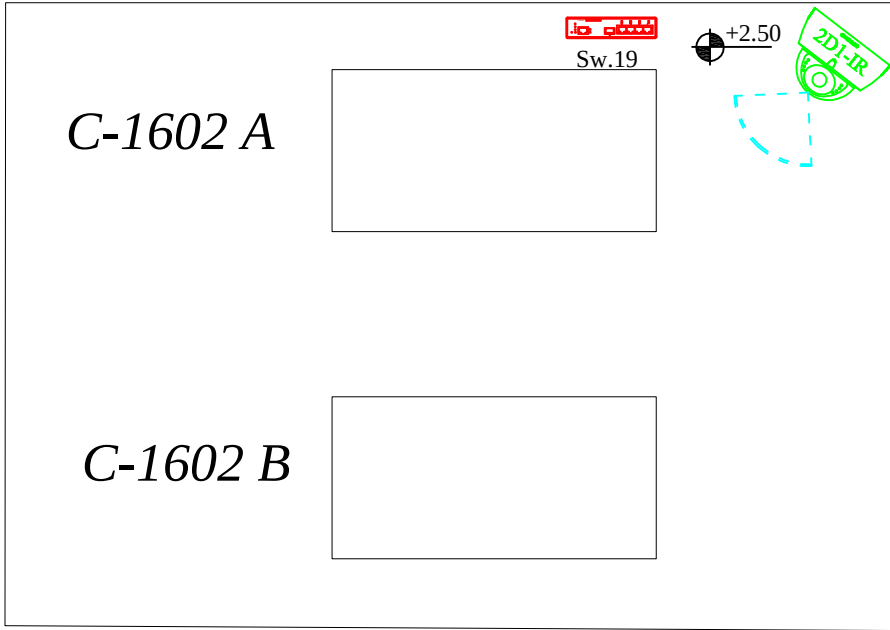
Scale: 1:100 Detail Designer ☐ Deneral Designer ☒ Page: 28 Of: 29

Internal Visit			
Amir Jamali	Milad Hajati	Behzad Farahani	95/03/01
Producer	Producer	Secunder	Date



1203

845



Cam No.317
Sw.19
C.C-G

Guidence Map

Symbol	Description	Number
	Camera Type (A)	0
	Camera Type (B)	0
	Camera Type (C)	0
	Camera Type (D)	0
	Camera Type (E)	0
	Camera Type (F)	0
	Camera Type (G)	0
	Camera Type (I)	0
	Camera Type (J)	0
	Camera Type (K)	1
	Camera Type (L)	0
	Camera Type (M)	0
	Camera Type (N)	0
	Switch Type A	0
	Switch Type B	0
	Switch Type C	1
	Switch Type D	0
	Media Converter (M-C)	0
	Client	0
	Projector	0
	4Meters Mast	0
	6Meters Mast	0
	10Meters Mast	0
	Support (S)	0
	Mountinf Camera Trap	0
	Control Room	
	Height indicator	

Project: Jey Oil Refining Company

Title: Map Location Equipment

Place: Installation building

Plan Number: Jey Oil_cam_p(c-g)_950124_00

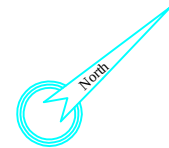
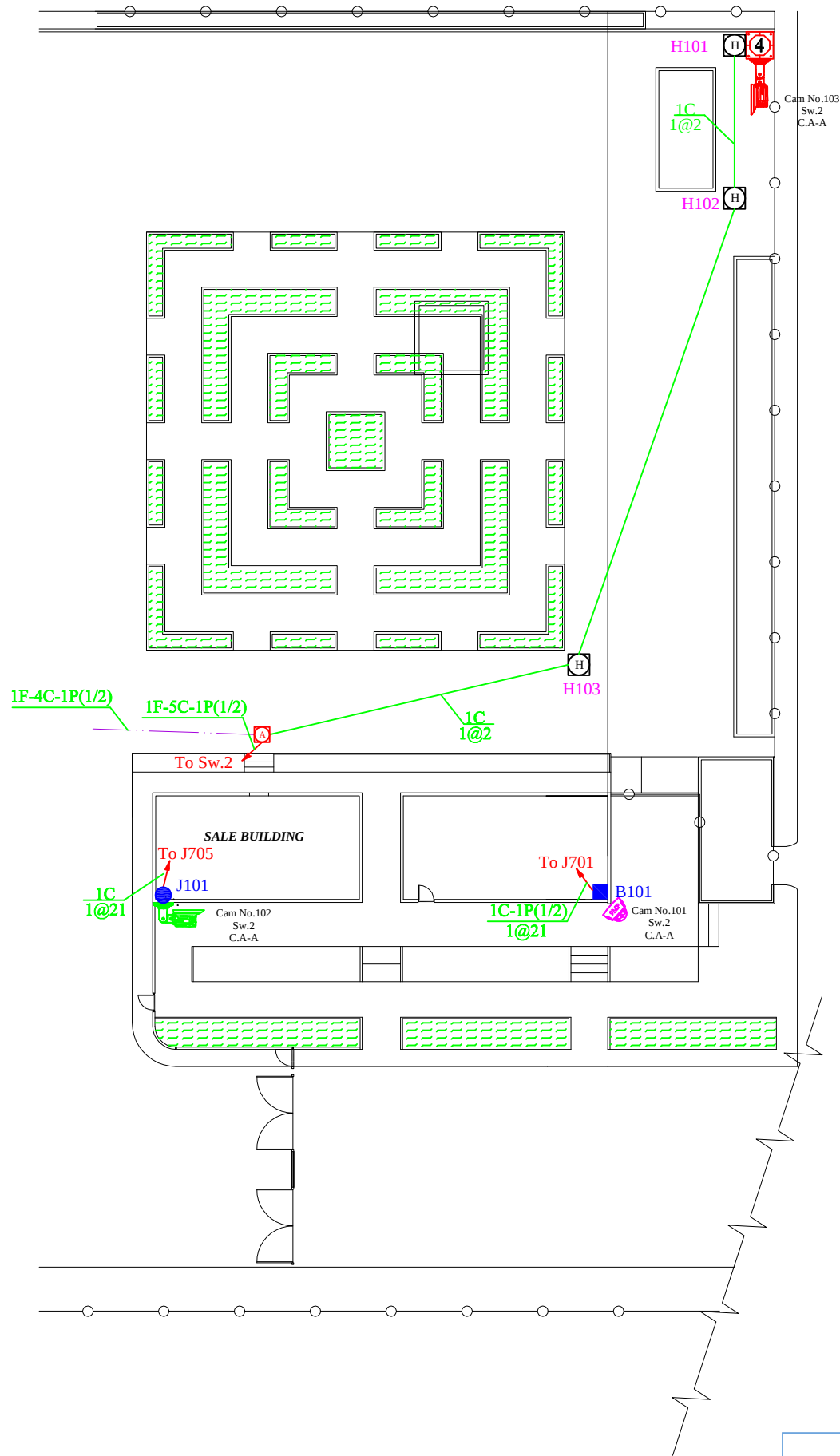
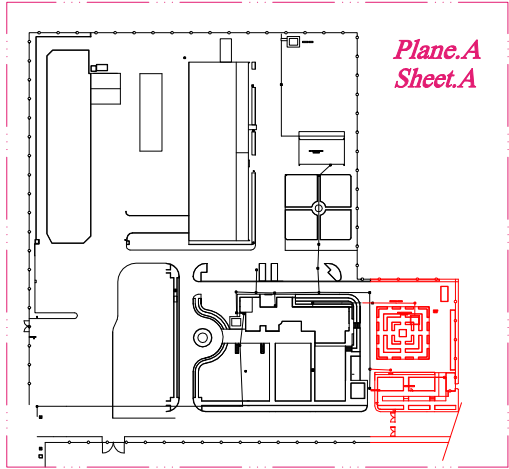
Employer: 	Consultant: 	Designer:
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Scale: 1:100 Detail Designer ☐ Deneral Designer ☒ Page: 29 Of: 29

Internal Visit			
Amir Jamali	Milad Hajati	Behzad Farahani	95/03/01
Producer	Producer	Seconder	Date

Season Third - Plumbing and cable route map

Plane A-Building center



Guidence Map

Symbol	Description	Number
	Camera Type (A)	0
	Camera Type (B)	1
	Camera Type (C)	0
	Camera Type (D)	1
	Camera Type (E)	0
	Camera Type (F)	1
	Camera Type (G)	0
	Camera Type (I)	0
	Camera Type (J)	0
	Camera Type (K)	0
	Camera Type (L)	0
	Camera Type (M)	0
	Camera Type (N)	0
	Junction	0
	Plastic Junction Boxes	1
	Metal Wall Boxes	0
	Switch Boxes	0
	Junction Box Following An External Camera	1
	Cafu	0
	Available Access Valves	0
	Access Valves	3
	Cassette Fiber Optic	0
	Client	0
	Well Earth	0
	Available Optical Fiber	
	PE Pipe	
	Steel Pipe	
	Coated Flexible Pipe	
	Gas Pipe	
	Duct	
	Network Cable	
	Power Cable	
	Earth Cable	
	Optical Fiber	

Project: Jey Oil Refining Company

Title: Map Location Equipment

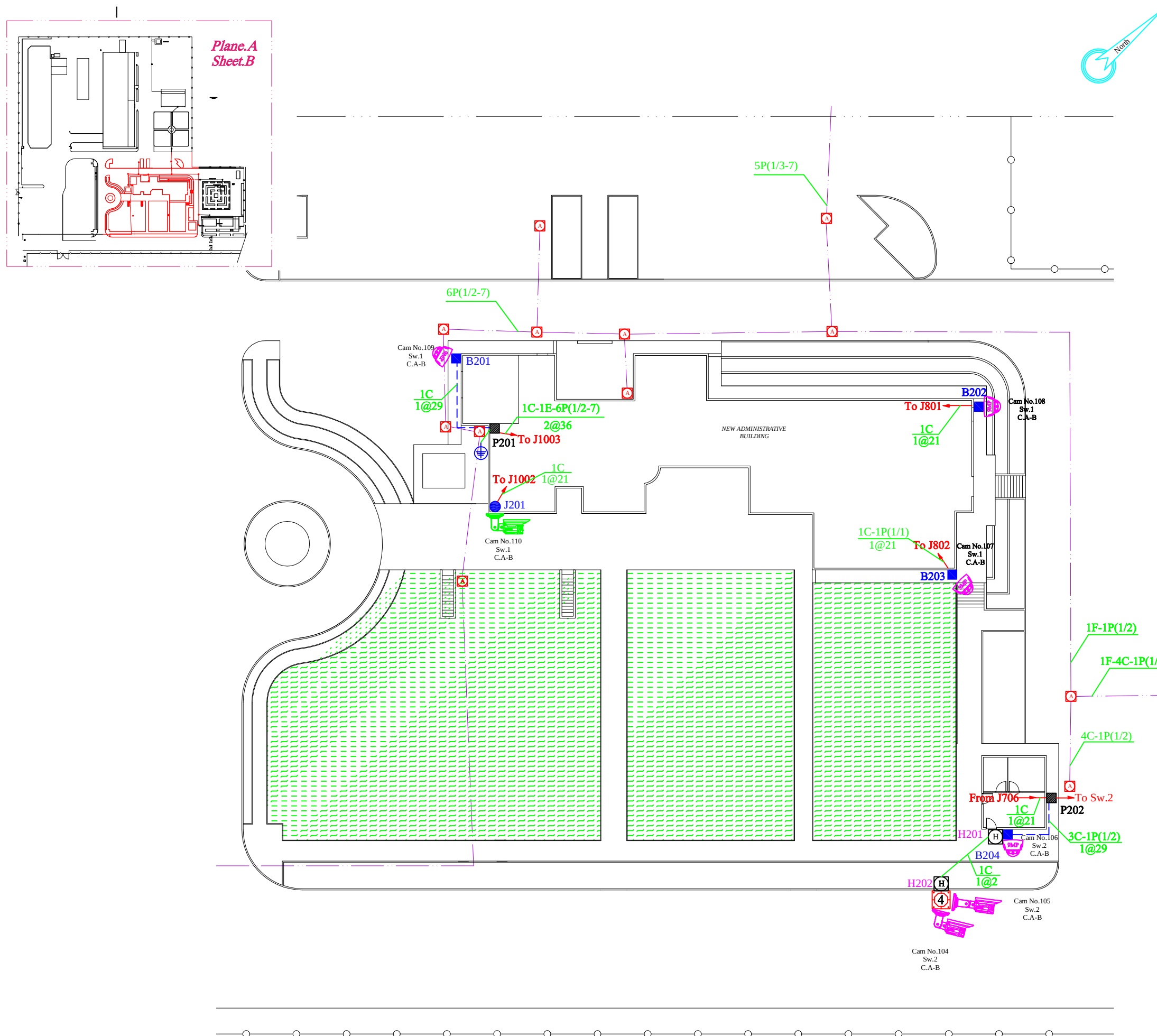
Place: Entrance Area

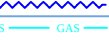
Plan Number: Jey Oil_cam_p(a-a)_940301_00

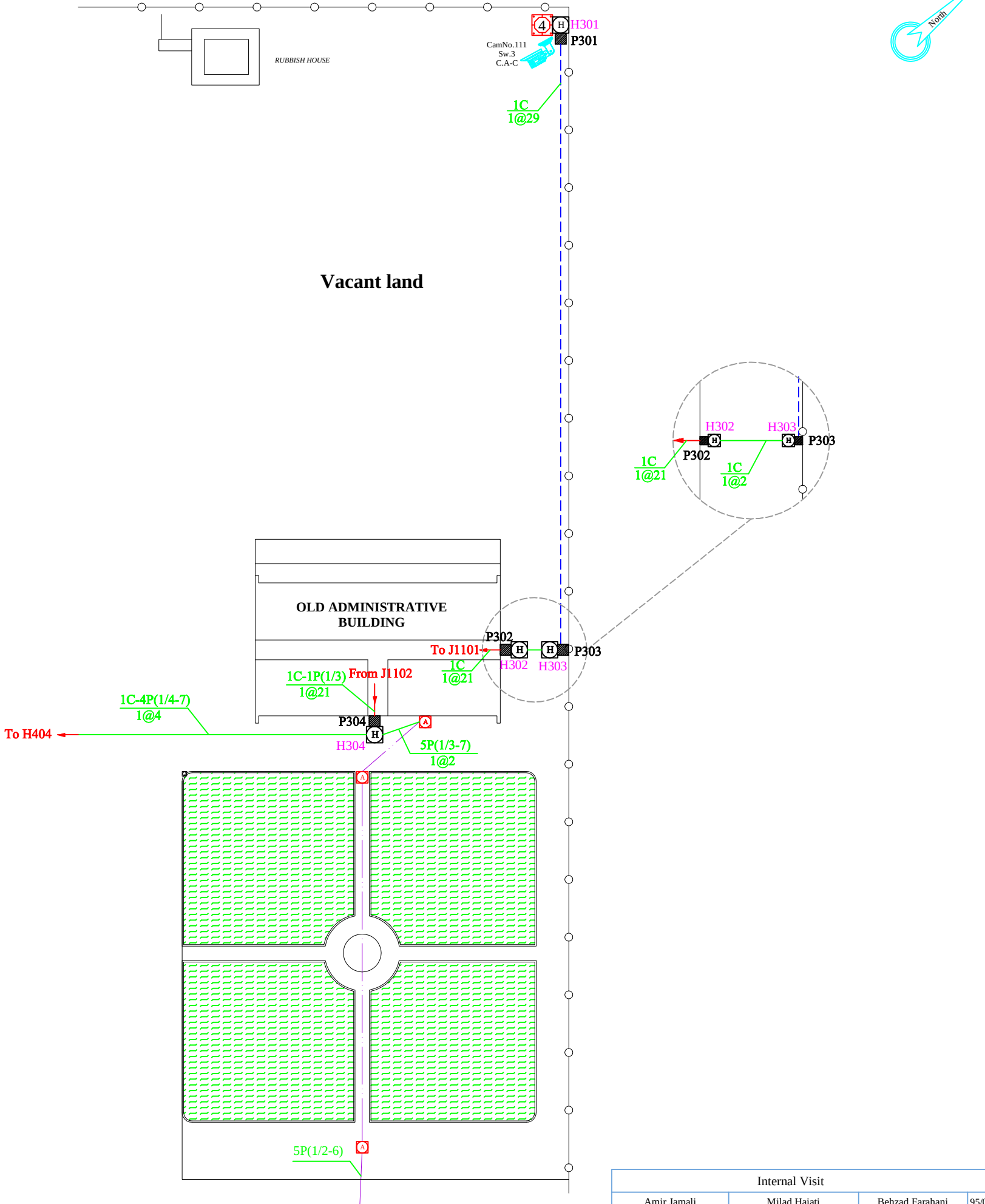
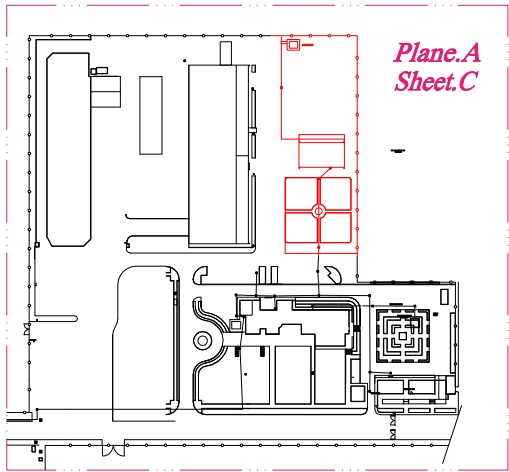


Internal Visit			
Amir Jamali	Milad Hajati	Behzad Farahani	95/03/01
Producer	Producer	Seconder	Date

Scale: 1:400 Detail Designer ☐ Deneral Designer ☒ Page: 1 Of: 29



Guidence Map			
Symbol	Description	Number	
	Camera Type (A)	0	A
	Camera Type (B)	0	
	Camera Type (C)	2	B
	Camera Type (D)	1	
	Camera Type (E)	0	
	Camera Type (F)	4	C
	Camera Type (G)	0	
	Camera Type (I)	0	D
	Camera Type (J)	0	
	Camera Type (K)	0	
	Camera Type (L)	0	E
	Camera Type (M)	0	
	Camera Type (N)	0	F
	Junction	0	
	Plastic Junction Boxes	1	
	Metal Wall Boxes	2	G
	Switch Boxes	0	
	Junction Box Following An External Camera	4	H
	Cafu	0	
	Available Access Valves	0	J
	Access Valves	2	
	Cassette Fiber Optic	0	
	Client	0	K
	Well Earth	1	
	Available Optical Fiber		
	PE Pipe		
	Steel Pipe		L
	Coated Flexible Pipe		
	Gas Pipe		
	Duct		
	Network Cable		M
	Power Cable		
	Earth Cable		N
	Optical Fiber		
Project: Jey Oil Refining Company			
Title: Map Location Equipment			
Place: Building Center Area			
Plan Number: Jey_Oil_cam_p(a-b)_940301_00			
Employer:	Consultant:	Designer:	
			
Scale: 1:400		Detail Designer	General Designer
Page: 2		Of: 29	



Guidence Map

Symbol	Description	Number
	Camera Type (A)	1
	Camera Type (B)	0
	Camera Type (C)	0
	Camera Type (D)	0
	Camera Type (E)	0
	Camera Type (F)	0
	Camera Type (G)	0
	Camera Type (I)	0
	Camera Type (J)	0
	Camera Type (K)	0
	Camera Type (L)	0
	Camera Type (M)	0
	Camera Type (N)	0
	Junction	0
	Plastic Junction Boxes	0
	Metal Wall Boxes	4
	Switch Boxes	0
	Junction Box Following An External Camera	0
	Cafu	0
	Available Access Valves	0
	Access Valves	4
	Cassette Fiber Optic	0
	Client	0
	Well Earth	0
	Available Optical Fiber	
	PE Pipe	
	Steel Pipe	
	Coated Flexible Pipe	
	Gas Pipe	
	Duct	
	Network Cable	
	Power Cable	
	Earth Cable	
	Optical Fiber	

Project:

Jey Oil Refining Company

Title:

Map Location Equipment

Place:

Porner Area

Plan Number:

Jey Oil_cam_p(a-c)_940301_00

Employer:

Consultant:

Designer:

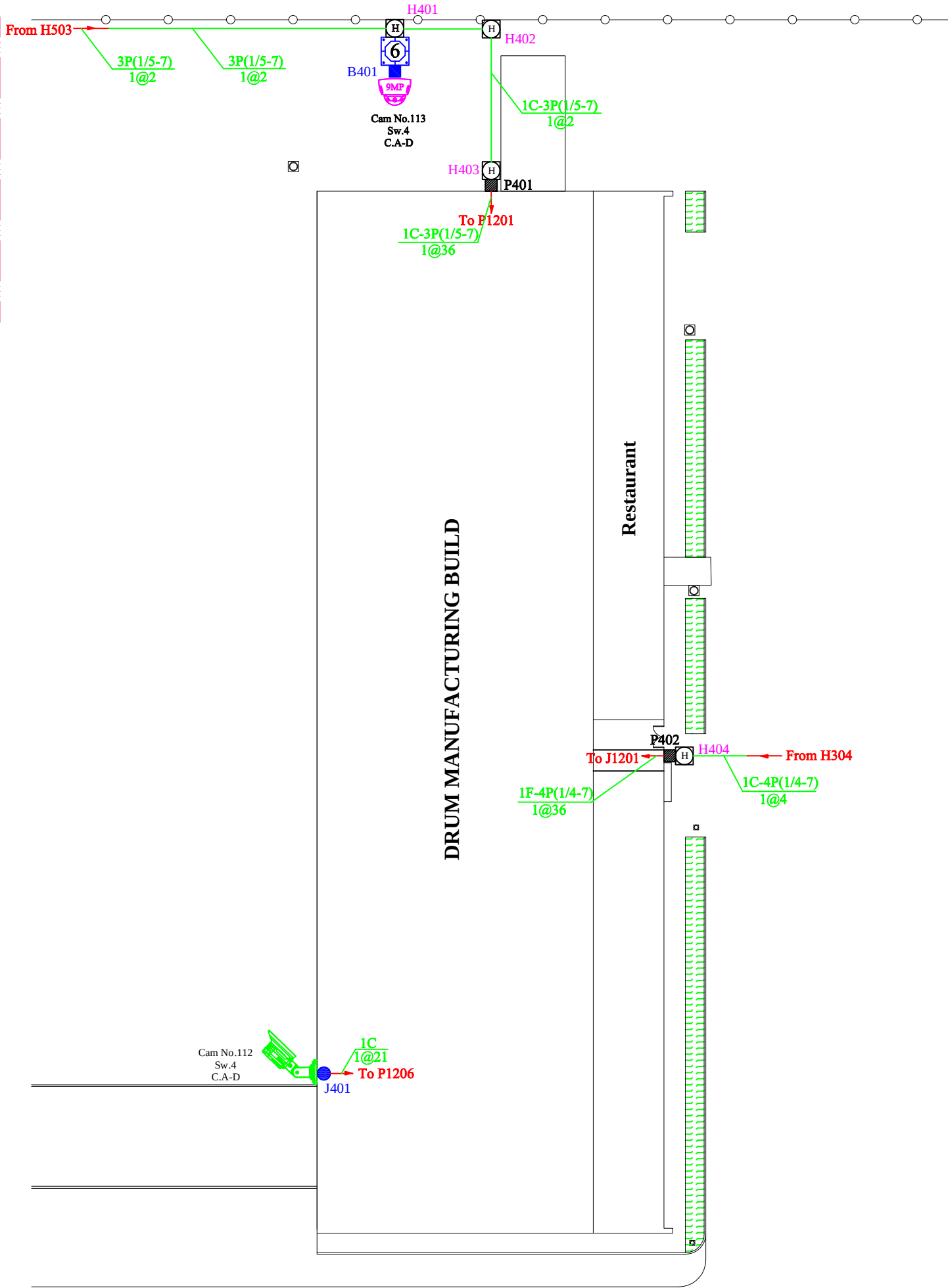
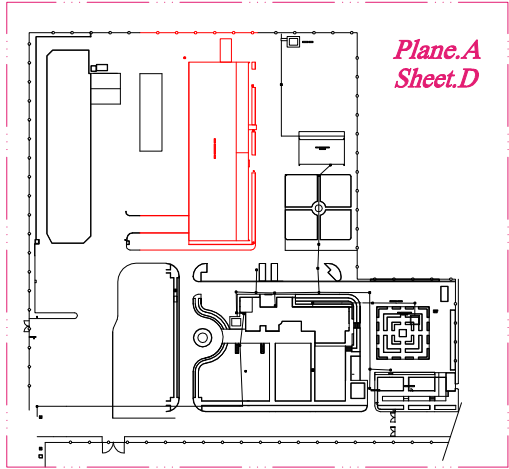
Scale: 1:450

Detail Designer ☐

Deneral Designer ☒

Page:3 Of: 29

Internal Visit			
Amir Jamali	Milad Hajati	Behzad Farahani	95/03/01
Producer	Producer	Seconder	Date



Guidence Map

Symbol	Description	Number
	Camera Type (A)	0
	Camera Type (B)	0
	Camera Type (C)	0
	Camera Type (D)	1
	Camera Type (E)	0
	Camera Type (F)	1
	Camera Type (G)	0
	Camera Type (I)	0
	Camera Type (J)	0
	Camera Type (K)	0
	Camera Type (L)	0
	Camera Type (M)	0
	Camera Type (N)	0
	Junction	0
	Plastic Junction Boxes	1
	Metal Wall Boxes	2
	Switch Boxes	0
	Junction Box Following An External Camera	1
	Cafu	0
	Available Access Valves	0
	Access Valves	4
	Cassette Fiber Optic	0
	Client	0
	Well Earth	0
	Available Optical Fiber	
	PE Pipe	
	Steel Pipe	
	Coated Flexible Pipe	
	Gas Pipe	
	Duct	
	Network Cable	
	Power Cable	
	Earth Cable	
	Optical Fiber	

Project: Jey Oil Refining Company

Title: Map Location Equipment

Place: DRUM MANUFACTURING BUILD

Plan Number: Jey Oil_cam_p(a-d)_940301_00

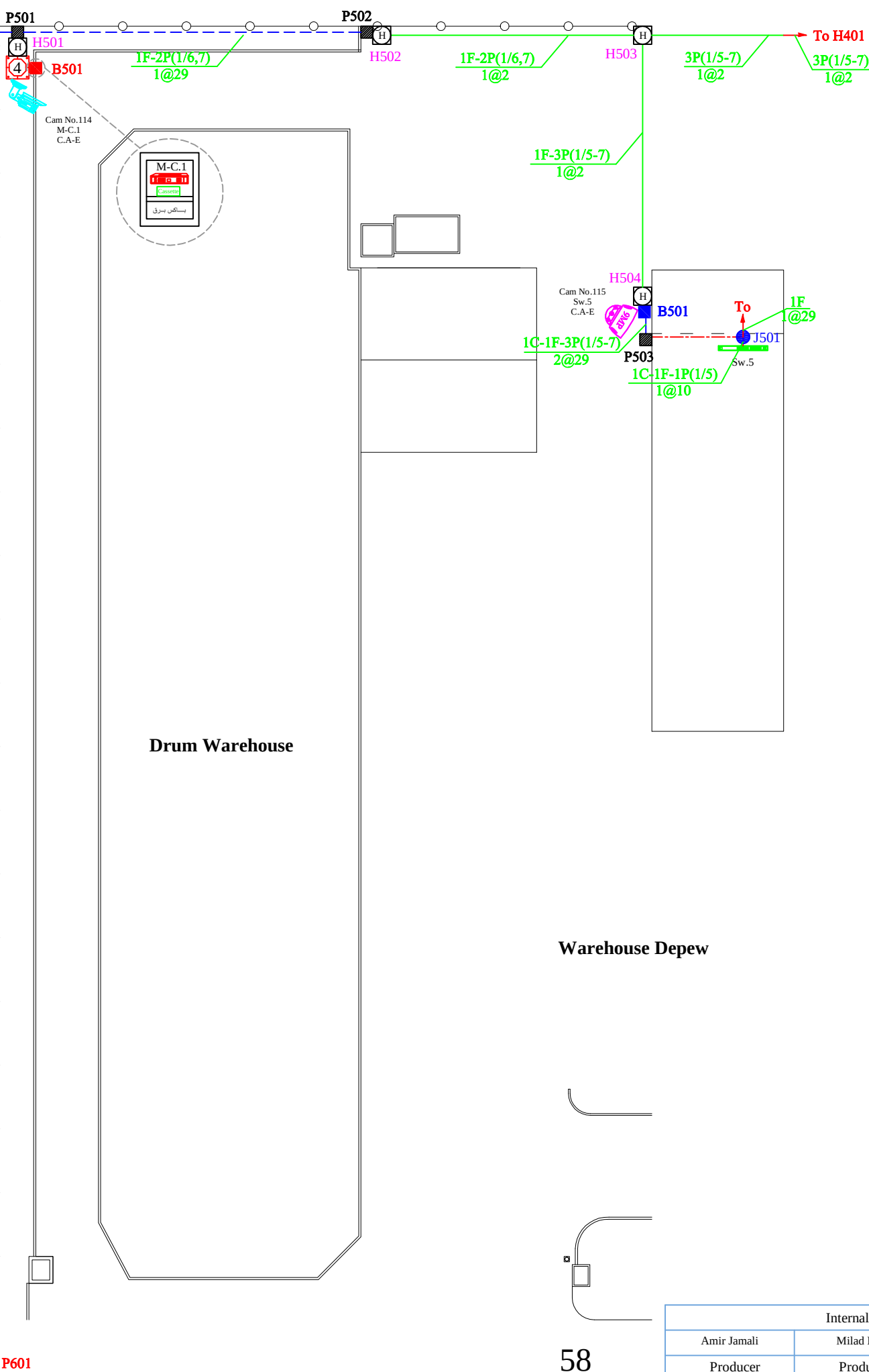
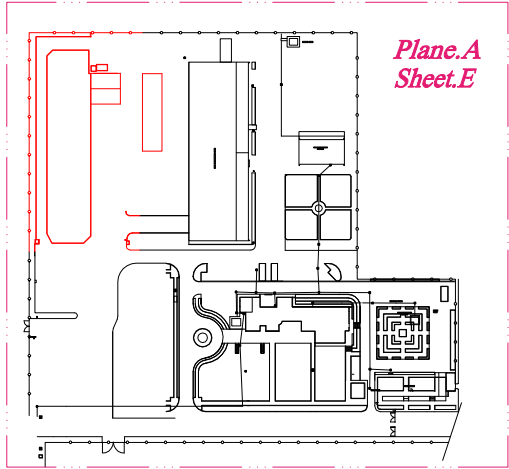
Employer:

Consultant:

Designer:

Internal Visit			
Amir Jamali	Milad Hajati	Behzad Farahani	95/03/01
Producer	Producer	Seconder	Date

Scale: 1:450 Detail Designer ☐ Deneral Designer ☒ Page: 4 Of: 29

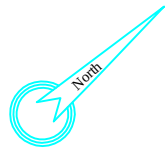
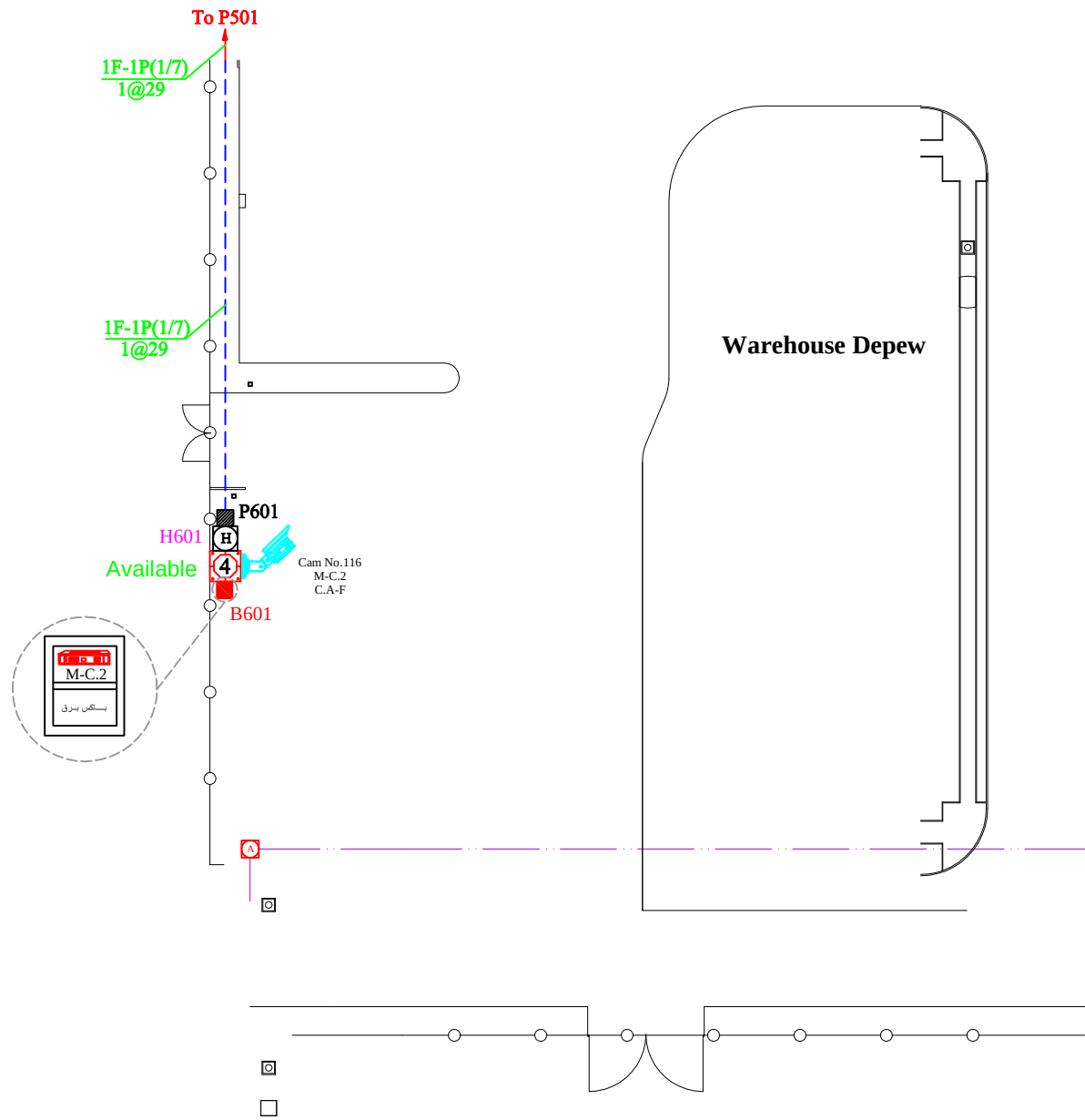
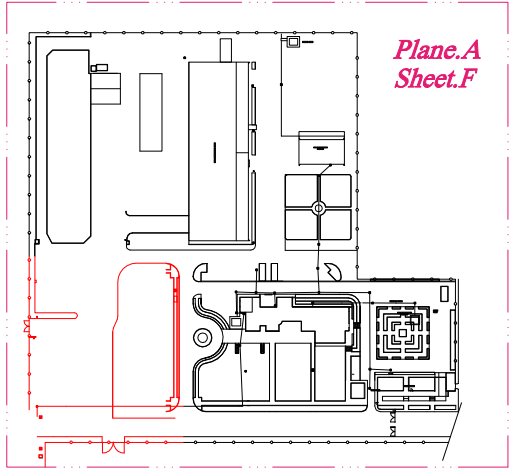


Guidence Map

Symbol	Description	Number
	Camera Type (A)	1
	Camera Type (B)	0
	Camera Type (C)	0
	Camera Type (D)	0
	Camera Type (E)	0
	Camera Type (F)	1
	Camera Type (G)	0
	Camera Type (I)	0
	Camera Type (J)	0
	Camera Type (K)	0
	Camera Type (L)	0
	Camera Type (M)	0
	Camera Type (N)	0
	Junction	0
	Plastic Junction Boxes	1
	Metal Wall Boxes	3
	Switch Boxes	1
	Junction Box Following An External Camera	1
	Cafu	0
	Available Access Valves	0
	Access Valves	4
	Cassette Fiber Optic	1
	Client	0
	Well Earth	0
	Available Optical Fiber	
	PE Pipe	
	Steel Pipe	
	Coated Flexible Pipe	
	Gas Pipe	
	Duct	
	Network Cable	
	Power Cable	
	Earth Cable	
	Optical Fiber	

Project: Jey Oil Refining Company		
Title: Map Location Equipment		
Place: Drum Warehouse Area		
Plan Number: Jey Oil_cam_p(a-e)_940301_00		
Employer:	Consultant:	Designer:
Scale: 1:450	Detail Designer ☐ Deneral Designer ☒	Page:5 Of: 29

Internal Visit			
Amir Jamali	Milad Hajati	Behzad Farahani	95/03/01
Producer	Producer	Seconder	Date

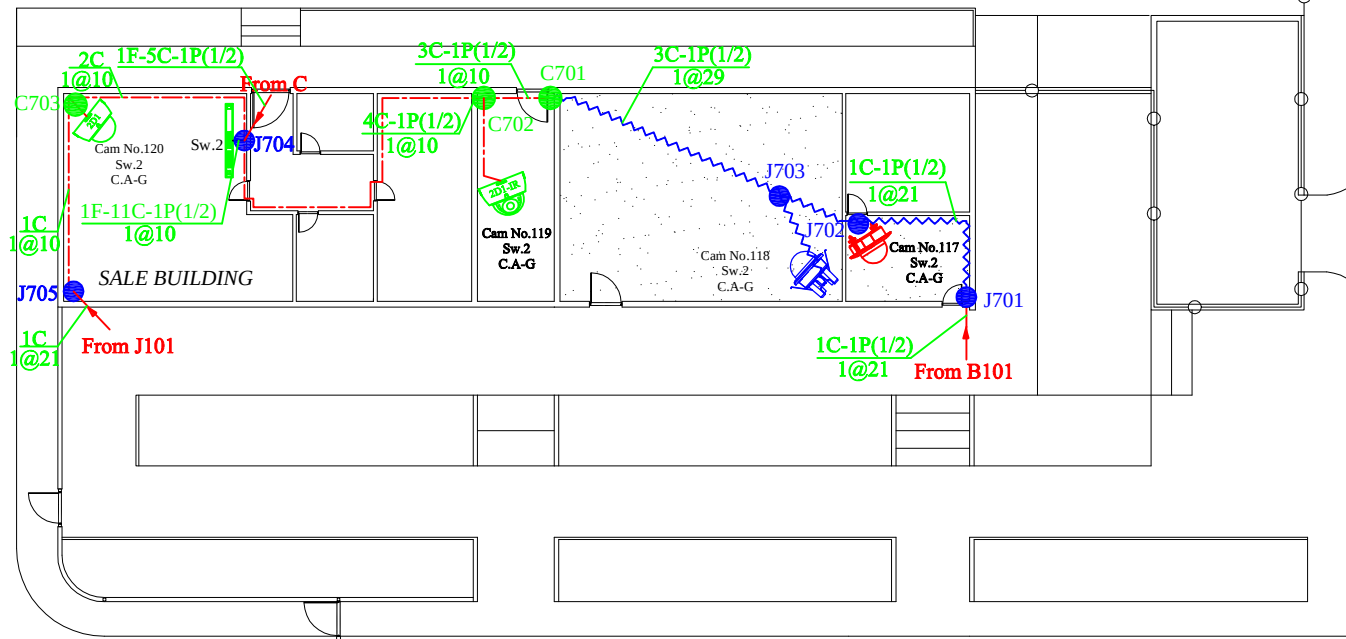
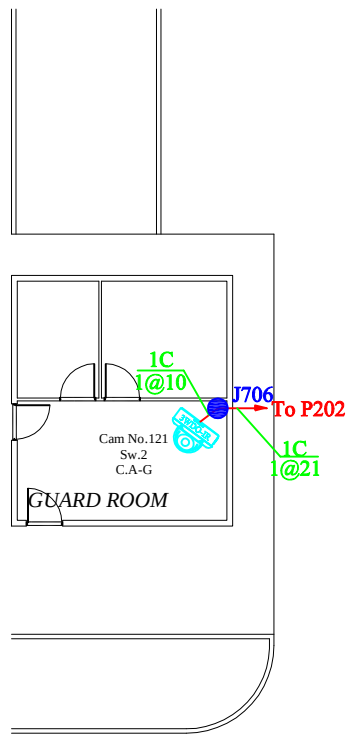
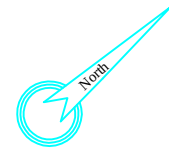
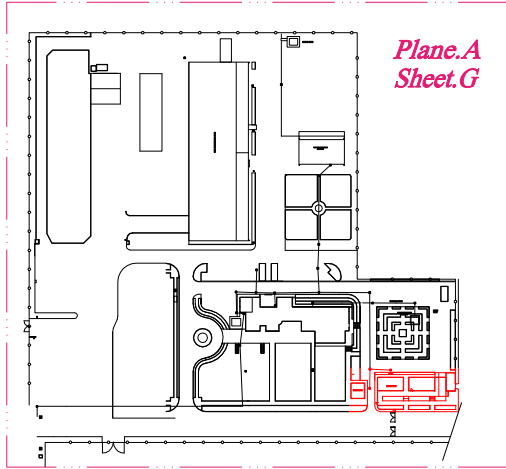


Guidence Map

Symbol	Description	Number
	Camera Type (A)	1
	Camera Type (B)	0
	Camera Type (C)	0
	Camera Type (D)	0
	Camera Type (E)	0
	Camera Type (F)	0
	Camera Type (G)	0
	Camera Type (I)	0
	Camera Type (J)	0
	Camera Type (K)	0
	Camera Type (L)	0
	Camera Type (M)	0
	Camera Type (N)	0
	Junction	0
	Plastic Junction Boxes	0
	Metal Wall Boxes	1
	Switch Boxes	1
	Junction Box Following An External Camera	0
	Cafu	0
	Available Access Valves	0
	Access Valves	1
	Cassette Fiber Optic	0
	Client	0
	Well Earth	0
	Available Optical Fiber	
	PE Pipe	
	Steel Pipe	
	Coated Flexible Pipe	
	Gas Pipe	
	Duct	
	Network Cable	
	Power Cable	
	Earth Cable	
	Optical Fiber	

Project:	Jey Oil Refining Company		
Title:	Map Location Equipment		
Place:	Warehouse Depew Area		
Plan Number:	Jey Oil_cam_p(a-f)_940301_00		
Employer:	Consultant:	Designer:	
Scale: 1:700	Detail Designer	Deneral Designer	Page:6 Of: 29

Internal Visit			
Amir Jamali	Milad Hajati	Behzad Farahani	95/03/01
Producer	Producer	Seconder	Date

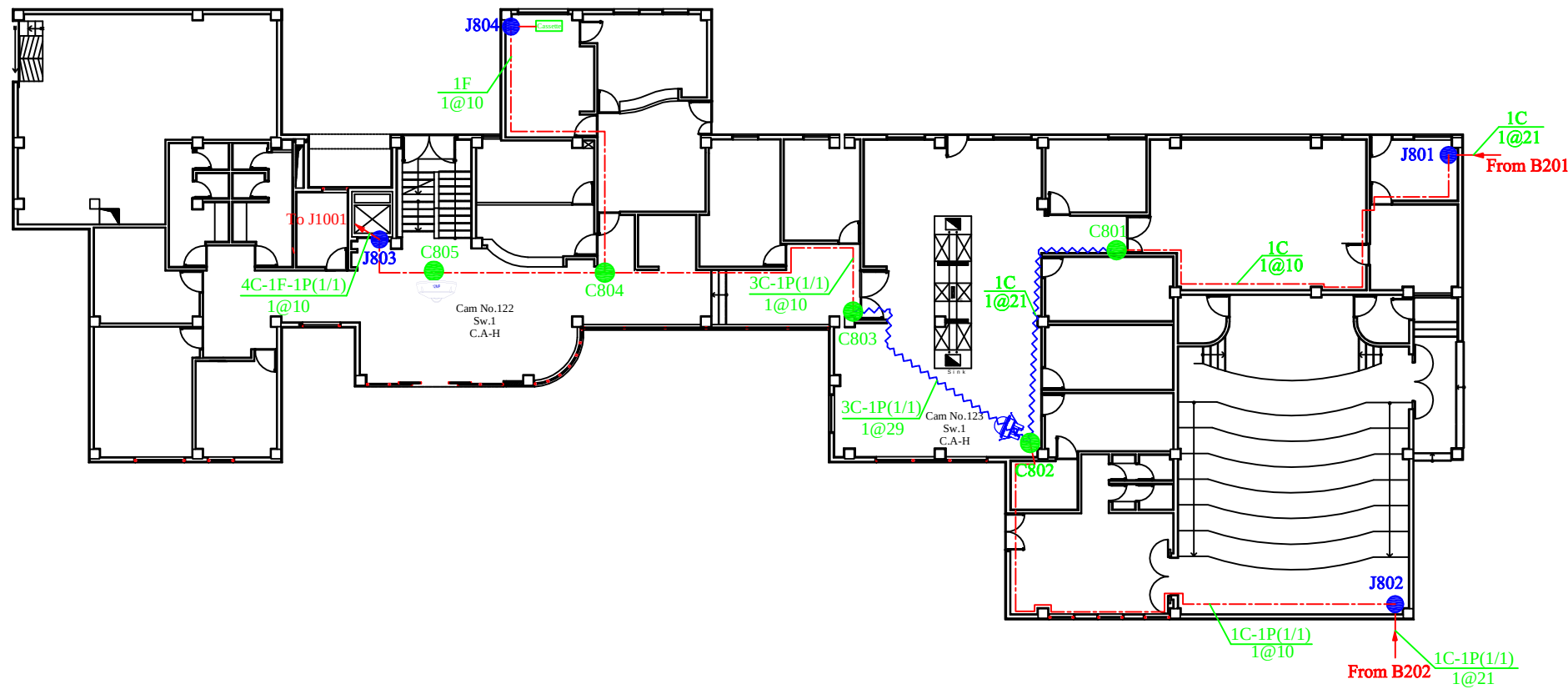
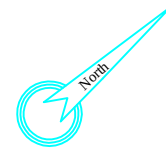
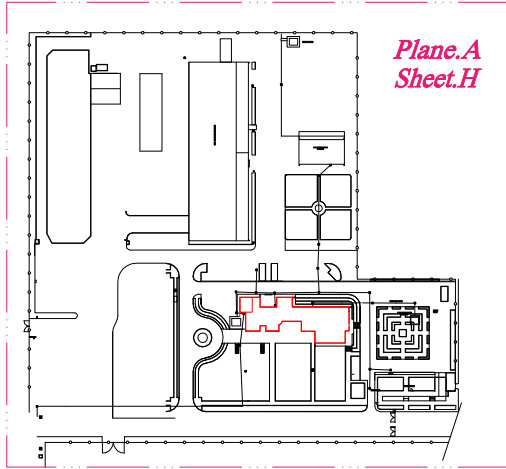


Guidence Map

Symbol	Description	Number
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	Camera Type (B)	0
	Camera Type (C)	0
	Camera Type (D)	0
	Camera Type (E)	0
	Camera Type (F)	0
	Camera Type (G)	0
	Camera Type (I)	1
	Camera Type (J)	1
	Camera Type (K)	1
	Camera Type (L)	1
	Camera Type (M)	0
	Camera Type (N)	1
	Junction	3
	Plastic Junction Boxes	6
	Metal Wall Boxes	0
	Switch Boxes	0
	Junction Box Following An External Camera	0
	Cafu	0
	Available Access Valves	0
	Access Valves	0
	Cassette Fiber Optic	0
	Client	0
	Well Earth	0
	Available Optical Fiber	
	PE Pipe	
	Steel Pipe	
	Coated Flexible Pipe	
	Gas Pipe	
	Duct	
	Network Cable	
	Power Cable	
	Earth Cable	
	Optical Fiber	

Project: Jey Oil Refining Company		
Title: Map Location Equipment		
Place: Entrance Building		
Plan Number: Jey Oil_cam_gf(entrance building)_940301_00		
Employer: 	Consultant: 	Designer:
Scale: 1:250	Detail Designer ☐	Deneral Designer ☒

Internal Visit			
Amir Jamali	Milad Hajati	Behzad Farahani	95/03/01
Producer	Producer	Seconder	Date

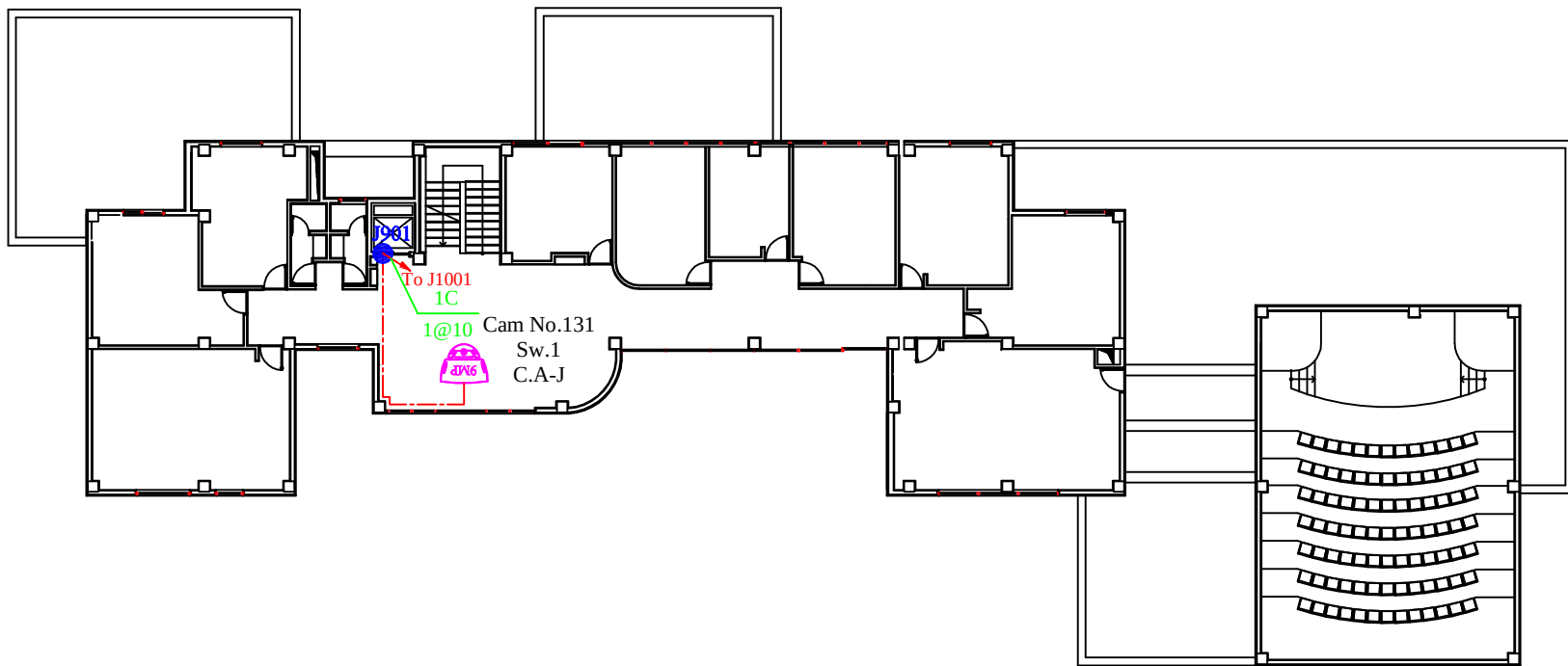
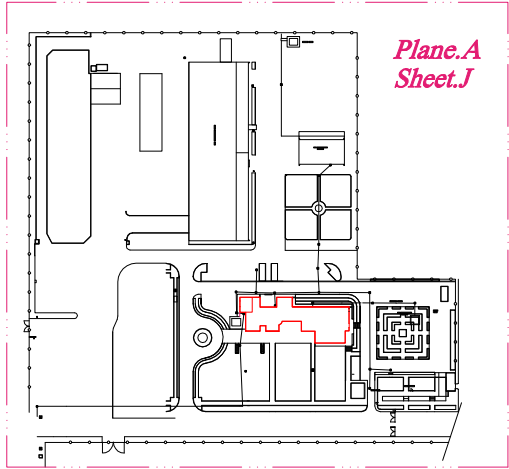


Guidence Map

Symbol	Description	Number
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	Camera Type (B)	0
	Camera Type (C)	0
	Camera Type (D)	0
	Camera Type (E)	0
	Camera Type (F)	0
	Camera Type (G)	0
	Camera Type (I)	0
	Camera Type (J)	0
	Camera Type (K)	0
	Camera Type (L)	0
	Camera Type (M)	0
	Camera Type (N)	0
	Junction	5
	Plastic Junction Boxes	4
	Metal Wall Boxes	0
	Switch Boxes	0
	Junction Box Following An External Camera	0
	Cafu	0
	Available Access Valves	0
	Access Valves	0
	Cassette Fiber Optic	0
	Client	0
	Well Earth	0
	Available Optical Fiber	
	PE Pipe	
	Steel Pipe	
	Coated Flexible Pipe	
	Gas Pipe	
	Duct	
	Network Cable	
	Power Cable	
	Earth Cable	
	Optical Fiber	

Project: Jey Oil Refining Company		
Title: Map Location Equipment		
Place: Building Center		
Plan Number: Jey Oil_cam_gf(bulding center)_940301_00		
Employer: 	Consultant: 	Designer:
Scale: 1:250	Detail Designer ☐ General Designer ☒	Page:8 Of: 29

Internal Visit			
Amir Jamali	Milad Hajati	Behzad Farahani	95/03/01
Producer	Producer	Seconder	Date

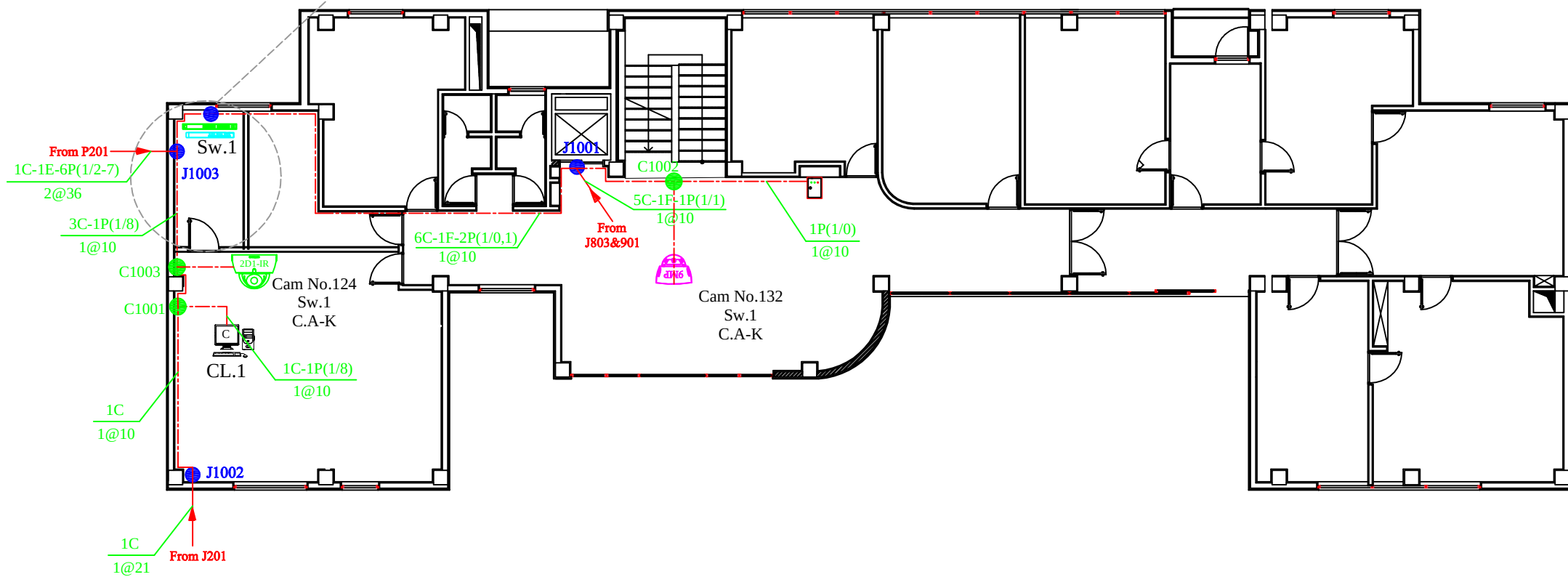
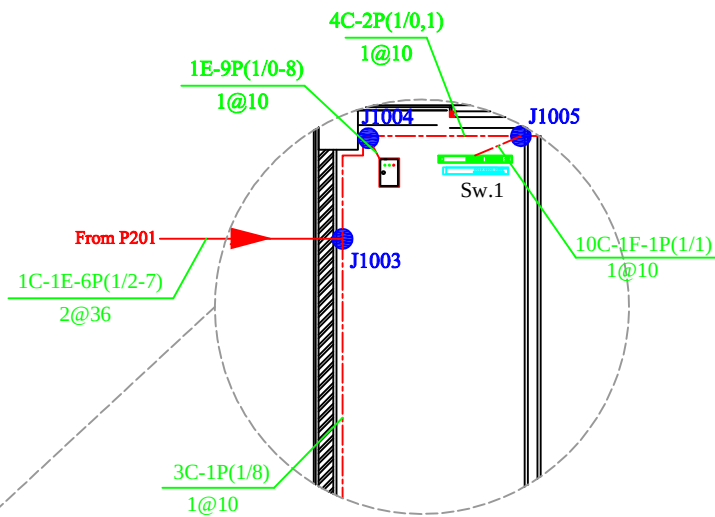
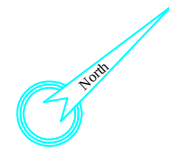
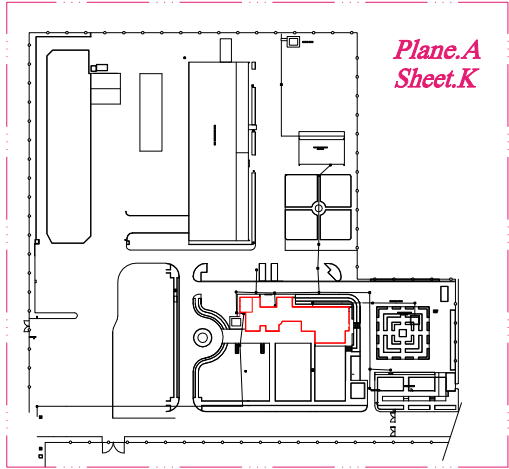


Guidence Map

Symbol	Description	Number
	Camera Type (A)	0
	Camera Type (B)	0
	Camera Type (C)	0
	Camera Type (D)	0
	Camera Type (E)	0
	Camera Type (F)	1
	Camera Type (G)	0
	Camera Type (I)	0
	Camera Type (J)	0
	Camera Type (K)	0
	Camera Type (L)	0
	Camera Type (M)	0
	Camera Type (N)	0
	Junction	0
	Plastic Junction Boxes	1
	Metal Wall Boxes	0
	Switch Boxes	0
	Junction Box Following An External Camera	0
	Cafu	0
	Available Access Valves	0
	Access Valves	0
	Cassette Fiber Optic	0
	Client	0
	Well Earth	0
	Available Optical Fiber	
	PE Pipe	
	Steel Pipe	
	Coated Flexible Pipe	
	Gas Pipe	
	Duct	
	Network Cable	
	Power Cable	
	Earth Cable	
	Optical Fiber	

Project:	Jey Oil Refining Company	
Title:	Map Location Equipment	
Place:	Entrance Building	
Plan Number:	Jey Oil_cam_f1(entrance building)_940301_00	
Employer:	Consultant:	Designer:
Scale: 1:250	Detail Designer ☐	Deneral Designer ☒
Page:9 Of: 29		

Internal Visit			
Amir Jamali	Milad Hajati	Behzad Farahani	95/03/01
Producer	Producer	Seconder	Date



Guidence Map

Symbol	Description	Number
	Camera Type (A)	0
	Camera Type (B)	0
	Camera Type (C)	0
	Camera Type (D)	0
	Camera Type (E)	0
	Camera Type (F)	1
	Camera Type (G)	0
	Camera Type (I)	0
	Camera Type (J)	0
	Camera Type (K)	1
	Camera Type (L)	0
	Camera Type (M)	0
	Camera Type (N)	0
	Junction	3
	Plastic Junction Boxes	5
	Metal Wall Boxes	0
	Switch Boxes	0
	Junction Box Following An External Camera	0
	Cafu	0
	Available Access Valves	0
	Access Valves	0
	Cassette Fiber Optic	0
	Client	1
	Well Earth	0
	Available Optical Fiber	
	PE Pipe	
	Steel Pipe	
	Coated Flexible Pipe	
	Gas Pipe	
	Duct	
	Network Cable	
	Power Cable	
	Earth Cable	
	Optical Fiber	

Project: **Jey Oil Refining Company**

Title: **Map Location Equipment**

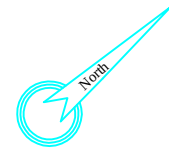
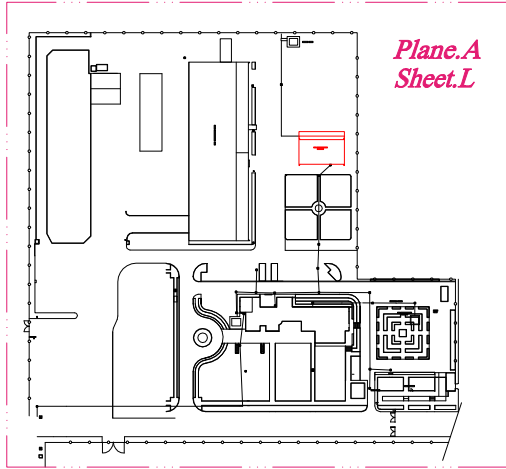
Place: **Building Center**

Plan Number: **Jey Oil_cam_f1(building center)_940301_00**

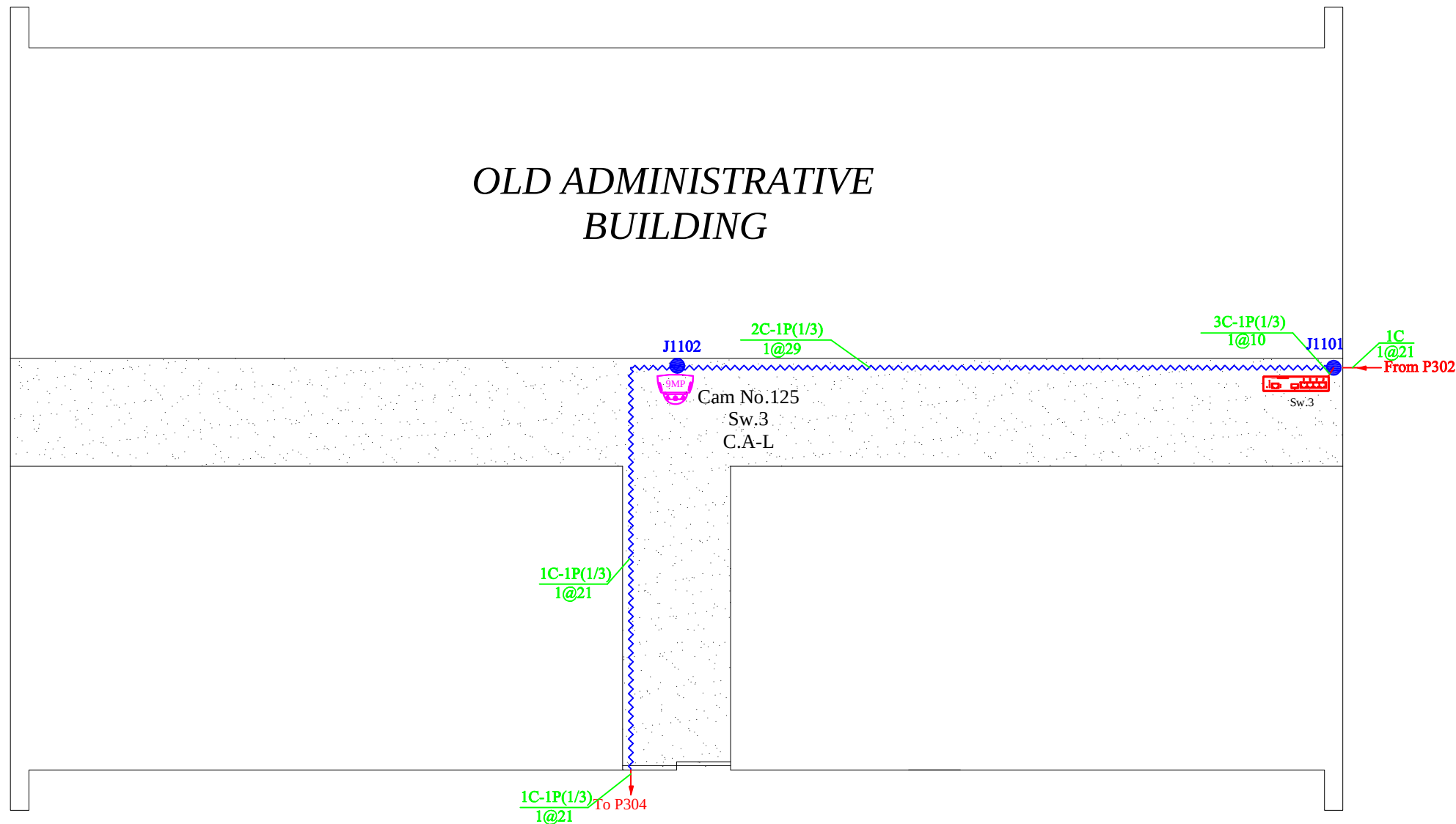
Employer: 	Consultant: 	Designer:
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Scale: 1:150 Detail Designer ☐ Deneral Designer ☒ Page:10 Of: 29

Internal Visit			
Amir Jamali	Milad Hajati	Behzad Farahani	95/03/01
Producer	Producer	Seconder	Date



OLD ADMINISTRATIVE BUILDING

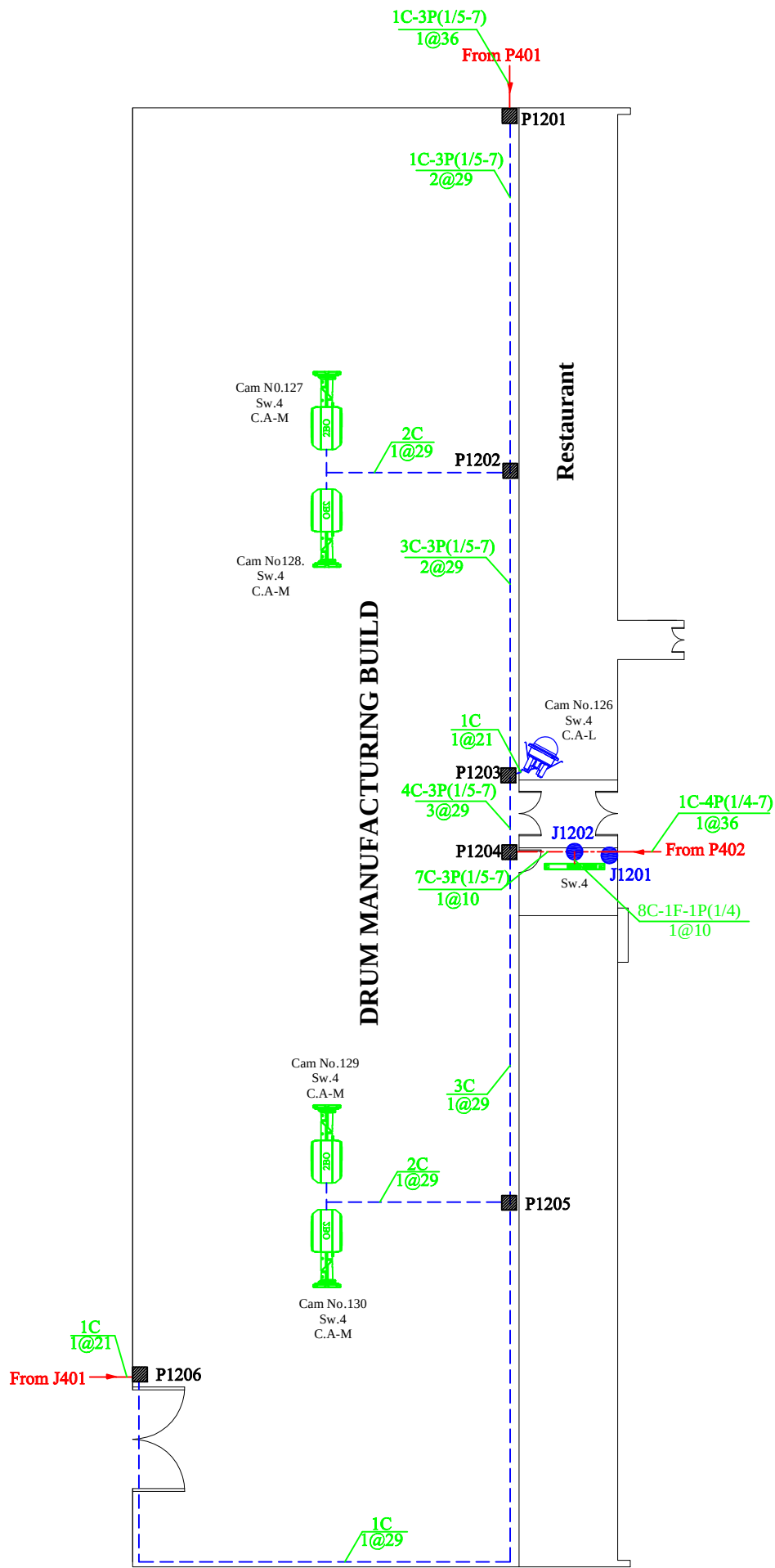
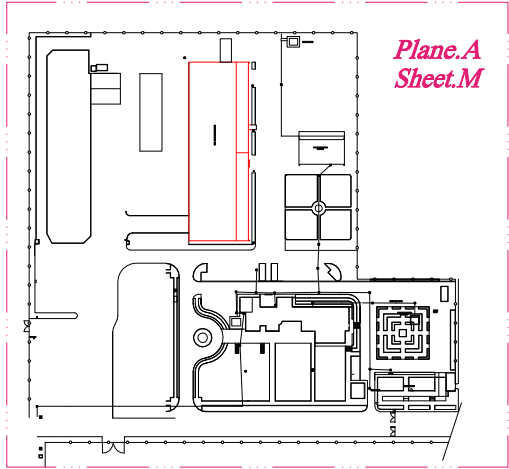


Guidence Map

Symbol	Description	Number
	Camera Type (A)	0
	Camera Type (B)	0
	Camera Type (C)	0
	Camera Type (D)	0
	Camera Type (E)	0
	Camera Type (F)	1
	Camera Type (G)	0
	Camera Type (I)	0
	Camera Type (J)	0
	Camera Type (K)	0
	Camera Type (L)	0
	Camera Type (M)	0
	Camera Type (N)	0
	Junction	0
	Plastic Junction Boxes	2
	Metal Wall Boxes	0
	Switch Boxes	0
	Junction Box Following An External Camera	0
	Cafu	0
	Available Access Valves	0
	Access Valves	0
	Cassette Fiber Optic	0
	Client	0
	Well Earth	0
	Available Optical Fiber	
	PE Pipe	
	Steel Pipe	
	Coated Flexible Pipe	
	Gas Pipe	
	Duct	
	Network Cable	
	Power Cable	
	Earth Cable	
	Optical Fiber	

Project:	Jey Oil Refining Company		
Title:	Map Location Equipment		
Place:	Old Administrative Bulding		
Plan Number:	Jey Oil_cam_gf(porner)_940301_00		
Employer:	Consultant:	Designer:	
Scale: 1:100	Detail Designer ☐	Deneral Designer ☒	Page:11 Of: 29

Internal Visit			
Amir Jamali	Milad Hajati	Behzad Farahani	95/01/24
Producer	Producer	Seconder	Date



Guidence Map

Symbol	Description	Number
	Camera Type (A)	0
	Camera Type (B)	0
	Camera Type (C)	0
	Camera Type (D)	4
	Camera Type (E)	0
	Camera Type (F)	0
	Camera Type (G)	0
	Camera Type (I)	0
	Camera Type (J)	0
	Camera Type (K)	0
	Camera Type (L)	0
	Camera Type (M)	0
	Camera Type (N)	1
	Junction	0
	Plastic Junction Boxes	2
	Metal Wall Boxes	6
	Switch Boxes	0
	Junction Box Following An External Camera	0
	Cafu	0
	Available Access Valves	0
	Access Valves	0
	Cassette Fiber Optic	0
	Client	0
	Well Earth	0
	Available Optical Fiber	
	PE Pipe	
	Steel Pipe	
	Coated Flexible Pipe	
	Gas Pipe	
	Duct	
	Network Cable	
	Power Cable	
	Earth Cable	
	Optical Fiber	

Project: Jey Oil Refining Company

Title: Map Location Equipment

Place: Drum Manufacturing Build

Plan Number: Jey Oil_cam_gf(drum .m-restaurant)_940301_00

Employer:



Consultant:



Designer:



Scale: 1:400

Detail Designer

Deneral Designer

Page:12 Of: 29

Internal Visit

Amir Jamali

Milad Hajati

Behzad Farahani

95/03/01

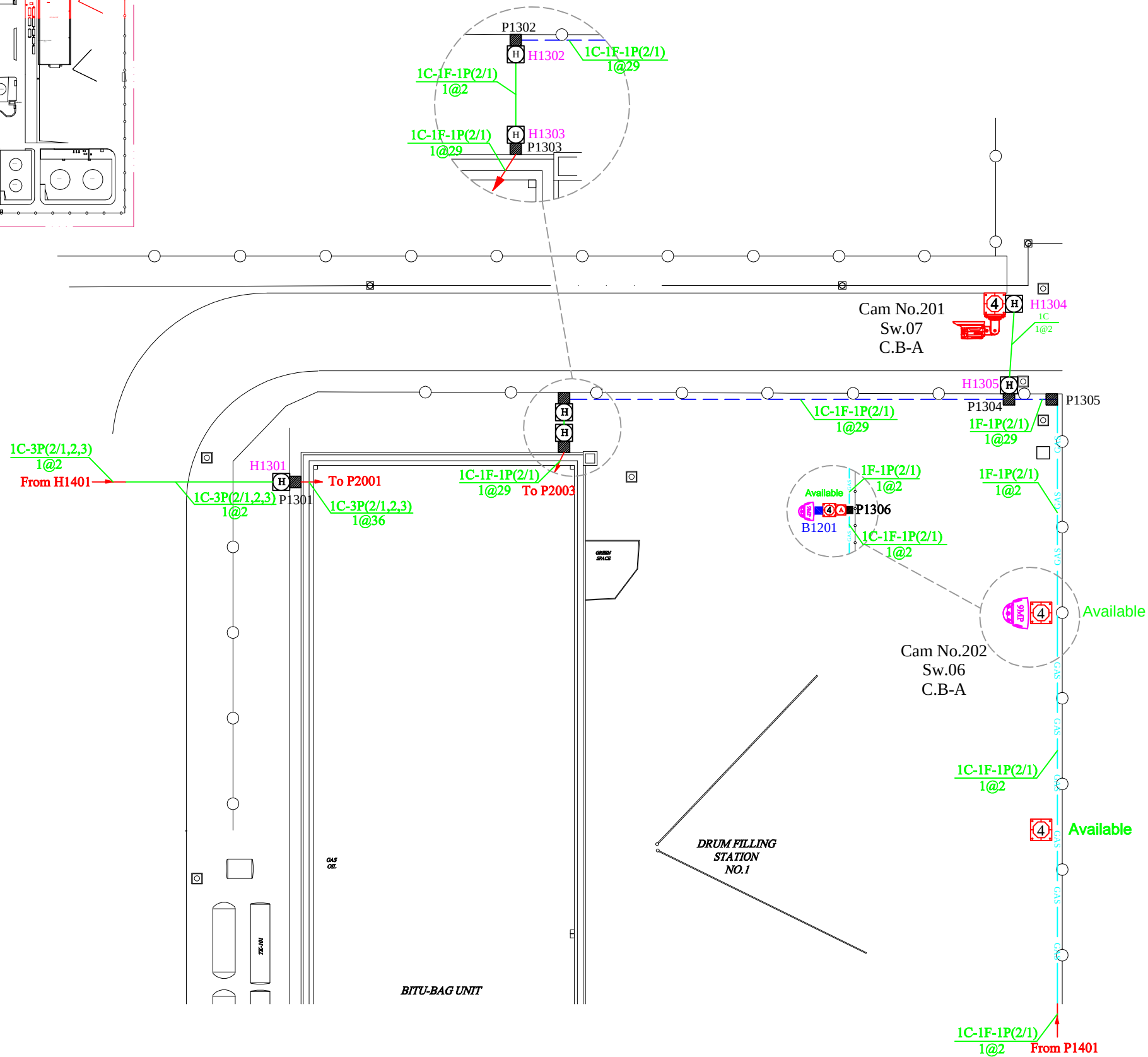
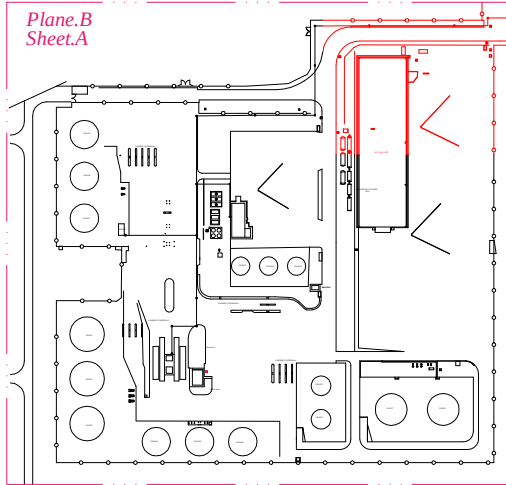
Producer

Producer

Seconder

Date

Plane B-Distribution



Guidence Map

Symbol	Description	Number
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	Camera Type (B)	1
	Camera Type (C)	0
	Camera Type (D)	0
	Camera Type (E)	0
	Camera Type (F)	1
	Camera Type (G)	0
	Camera Type (I)	0
	Camera Type (J)	0
	Camera Type (K)	0
	Camera Type (L)	0
	Camera Type (M)	0
	Camera Type (N)	0
	Junction	0
	Plastic Junction Boxes	0
	Metal Wall Boxes	6
	Switch Boxes	0
	Junction Box Following An External Camera	1
	Cafu	0
	Available Access Valves	0
	Access Valves	5
	Cassette Fiber Optic	0
	Client	0
	Well Earth	0
	Available Optical Fiber	
	PE Pipe	
	Steel Pipe	
	Coated Flexible Pipe	
	Gas Pipe	
	Duct	
	Network Cable	
	Power Cable	
	Earth Cable	
	Optical Fiber	

Project: Jey Oil Refining Company

Title: Map Location Equipment

Place: Drum Filling Area

Plan Number: Jey Oil_cam_p(b-a)_950124_00

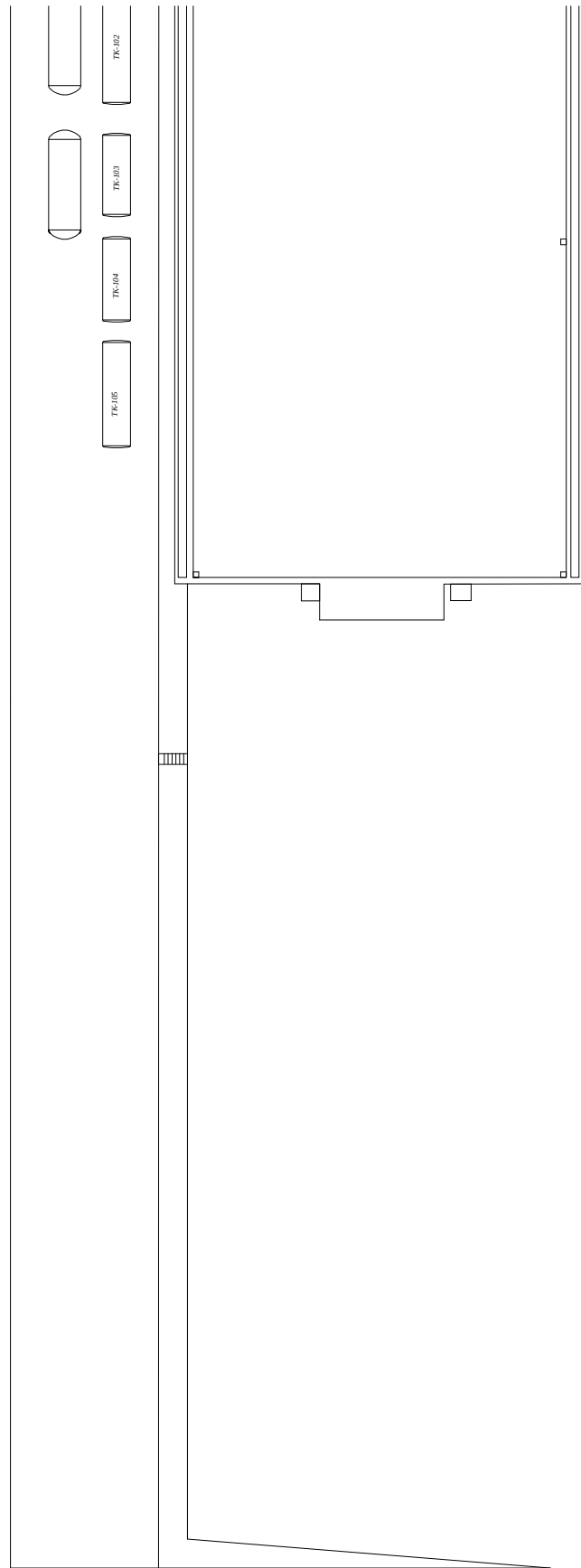
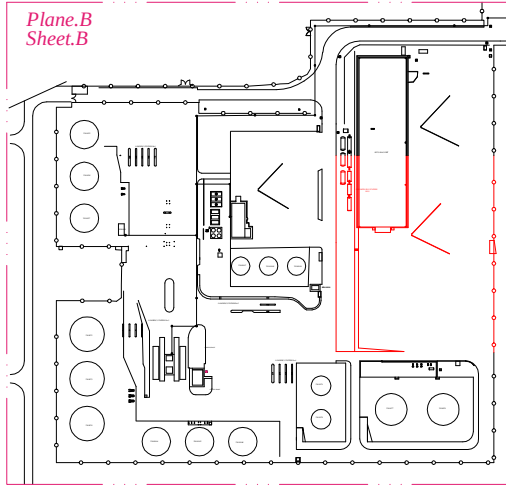
Employer:

Consultant:

Designer:

Scale: 1:600 Detail Designer ☐ Deneral Designer ☒ Page:13 Of: 29

Internal Visit			
Amir Jamali	Milad Hajati	Behzad Farahani	95/03/01
Producer	Producer	Seconder	Date

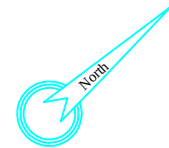
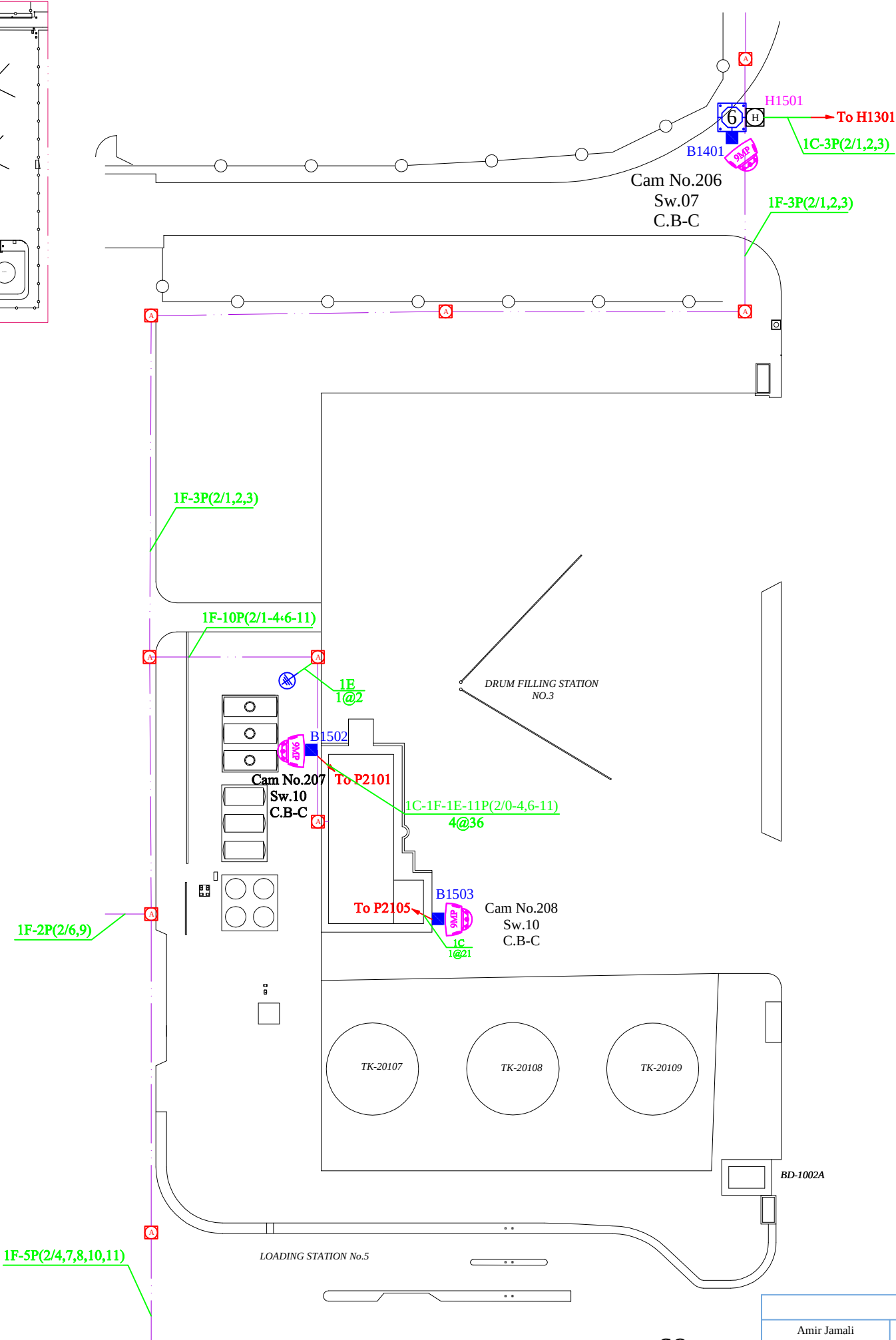
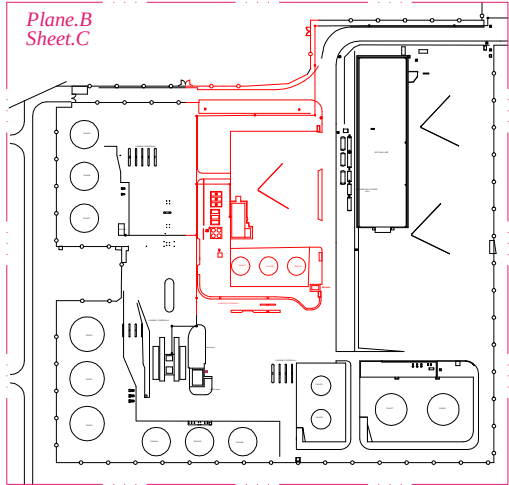


Internal Visit			
Amir Jamali	Milad Hajati	Behzad Farahani	95/03/01
Producer	Producer	Seconder	Date

Guidence Map

Symbol	Description	Number
	Camera Type (A)	0
	Camera Type (B)	0
	Camera Type (C)	0
	Camera Type (D)	0
	Camera Type (E)	0
	Camera Type (F)	3
	Camera Type (G)	0
	Camera Type (I)	0
	Camera Type (J)	0
	Camera Type (K)	0
	Camera Type (L)	0
	Camera Type (M)	0
	Camera Type (N)	0
	Junction	0
	Plastic Junction Boxes	0
	Metal Wall Boxes	3
	Switch Boxes	0
	Junction Box Following An External Camera	3
	Cafu	1
	Available Access Valves	0
	Access Valves	0
	Cassette Fiber Optic	0
	Client	0
	Well Earth	0
	Available Optical Fiber	
	PE Pipe	
	Steel Pipe	
	Coated Flexible Pipe	
	Gas Pipe	
	Duct	
	Network Cable	
	Power Cable	
	Earth Cable	
	Optical Fiber	

Project: Jey Oil Refining Company		
Title: Map Location Equipment		
Place: Drum Filling Area		
Plan Number: Jey Oil_cam_p(b-b)_950124_00		
Employer: 	Consultant: 	Designer:
Scale: 1:600	Detail Designer ☐ General Designer ☒	Page:14 Of: 29



Guidence Map

Symbol	Description	Number
	Camera Type (A)	0
	Camera Type (B)	0
	Camera Type (C)	0
	Camera Type (D)	0
	Camera Type (E)	0
	Camera Type (F)	3
	Camera Type (G)	0
	Camera Type (I)	0
	Camera Type (J)	0
	Camera Type (K)	0
	Camera Type (L)	0
	Camera Type (M)	0
	Camera Type (N)	0
	Junction	0
	Plastic Junction Boxes	0
	Metal Wall Boxes	0
	Switch Boxes	0
	Junction Box Following An External Camera	3
	Cafu	0
	Available Access Valves	0
	Access Valves	1
	Cassette Fiber Optic	0
	Client	0
	Well Earth	1
	Available Optical Fiber	
	PE Pipe	
	Steel Pipe	
	Coated Flexible Pipe	
	Gas Pipe	
	Duct	
	Network Cable	
	Power Cable	
	Earth Cable	
	Optical Fiber	

Project: **Jey Oil Refining Company**

Title: **Map Location Equipment**

Place: **Drum Filling Area**

Plan Number: **Jey Oil_cam_p(b-c)_950124_00**

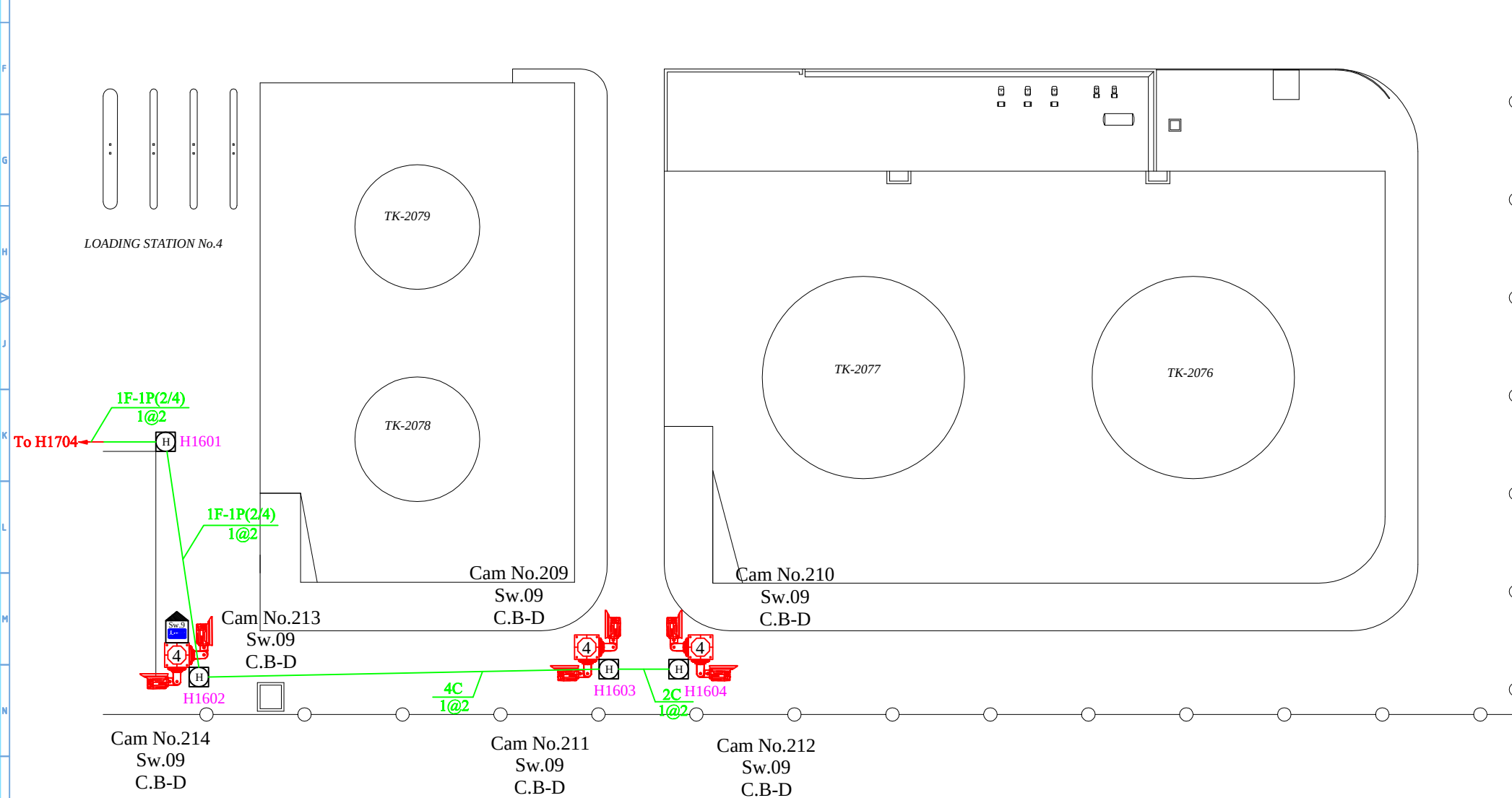
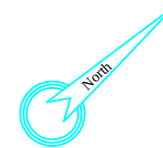
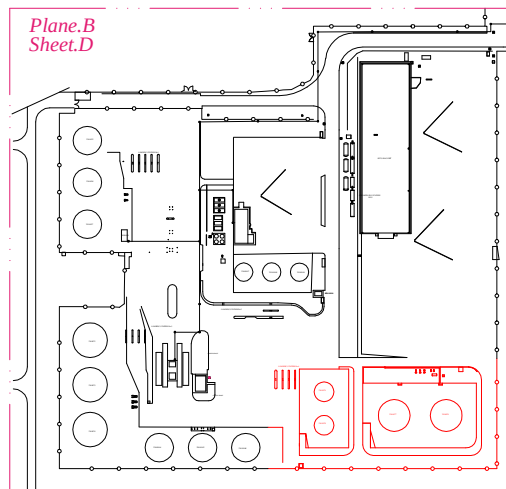
Employer:

Consultant:

Designer:

Internal Visit			
Amir Jamali	Milad Hajati	Behzad Farahani	95/03/01
Producer	Producer	Seconder	Date

Scale: 1:700 Detail Designer ☐ Deneral Designer ☒ Page:15 Of: 29



Guidence Map		
Symbol	Description	Number
	Camera Type (A)	0
	Camera Type (B)	6
	Camera Type (C)	0
	Camera Type (D)	0
	Camera Type (E)	0
	Camera Type (F)	0
	Camera Type (G)	0
	Camera Type (I)	0
	Camera Type (J)	0
	Camera Type (K)	0
	Camera Type (L)	0
	Camera Type (M)	0
	Camera Type (N)	0
	Junction	0
	Plastic Junction Boxes	0
	Metal Wall Boxes	0
	Switch Boxes	0
	Junction Box Following An External Camera	0
	Cafu	1
	Available Access Valves	0
	Access Valves	4
	Cassette Fiber Optic	0
	Client	0
	Well Earth	0
	Available Optical Fiber	
	PE Pipe	
	Steel Pipe	
	Coated Flexible Pipe	
	Gas Pipe	
	Duct	
	Network Cable	
	Power Cable	
	Earth Cable	
	Optical Fiber	

Project: **Jey Oil Refining Company**

Title:	Map Location Equipment
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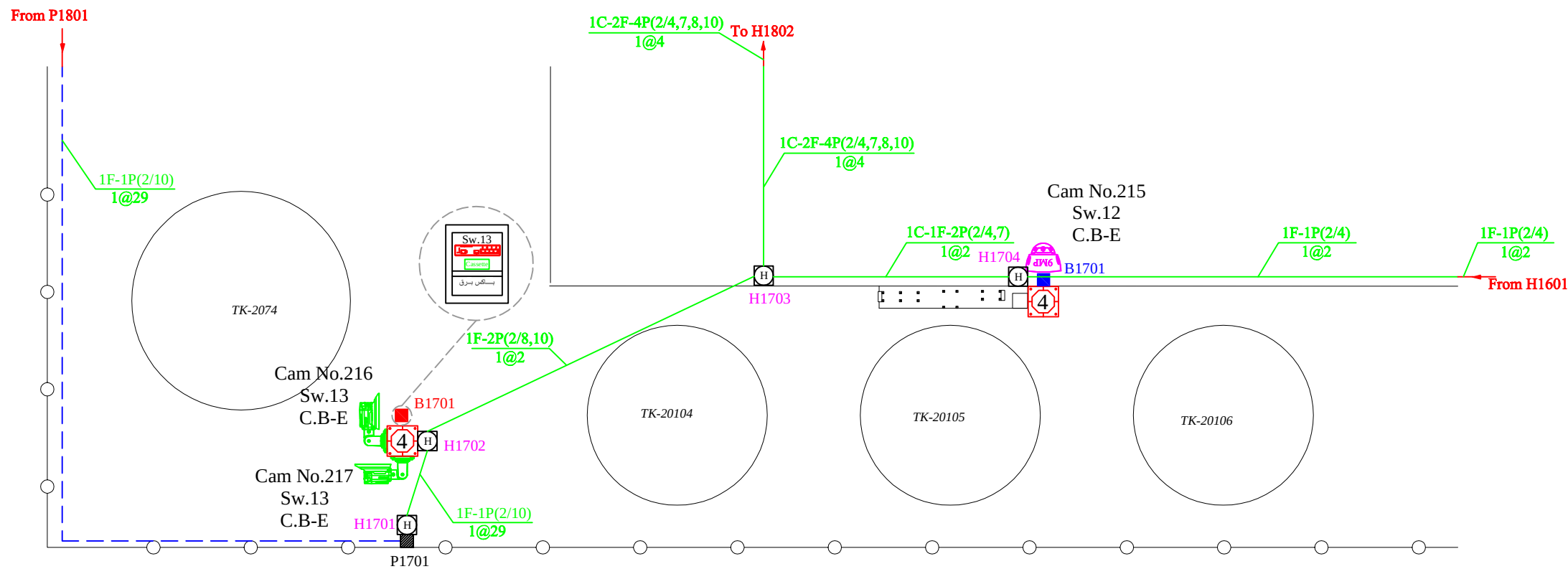
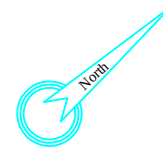
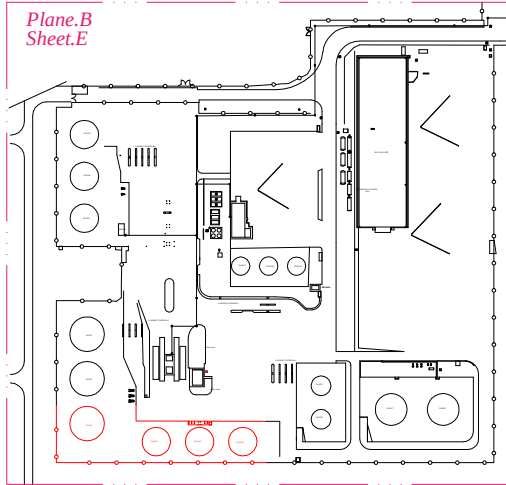
Place:	Entrance Area
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Plan Number:	Jey Oil_cam_p(b-d)_950124_00	a
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Employer:	Consultant:	Designer:
 Jey Oil Refining Company	 Raya Engineering Company	 Artiman Design

Scale: 1:600	Detail Designer ☐	General Designer ☒	Page:16 Of: 29
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Internal Visit			
Amir Jamali	Milad Hajati	Behzad Farahani	95/03/01
Producer	Producer	Secunder	Date



Guidence Map

Symbol	Description	Number
	Camera Type (A)	0
	Camera Type (B)	0
	Camera Type (C)	0
	Camera Type (D)	2
	Camera Type (E)	0
	Camera Type (F)	1
	Camera Type (G)	0
	Camera Type (I)	0
	Camera Type (J)	0
	Camera Type (K)	0
	Camera Type (L)	0
	Camera Type (M)	0
	Camera Type (N)	0
	Junction	0
	Plastic Junction Boxes	0
	Metal Wall Boxes	1
	Switch Boxes	1
	Junction Box Following An External Camera	1
	Cafu	0
	Available Access Valves	0
	Access Valves	4
	Cassette Fiber Optic	1
	Client	0
	Well Earth	0
	Available Optical Fiber	
	PE Pipe	
	Steel Pipe	
	Coated Flexible Pipe	
	Gas Pipe	
	Duct	
	Network Cable	
	Power Cable	
	Earth Cable	
	Optical Fiber	

Project: **Jey Oil Refining Company**

Title: **Map Location Equipment**

Place: **Entrance Area**

Plan Number: **Jey Oil_cam_p(b-e)_950124_00**

Employer:



Consultant:



Designer:



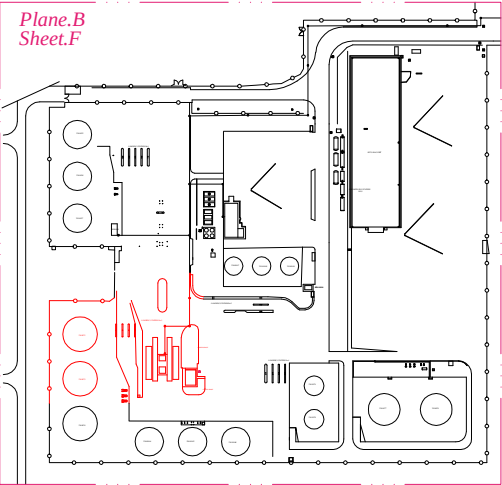
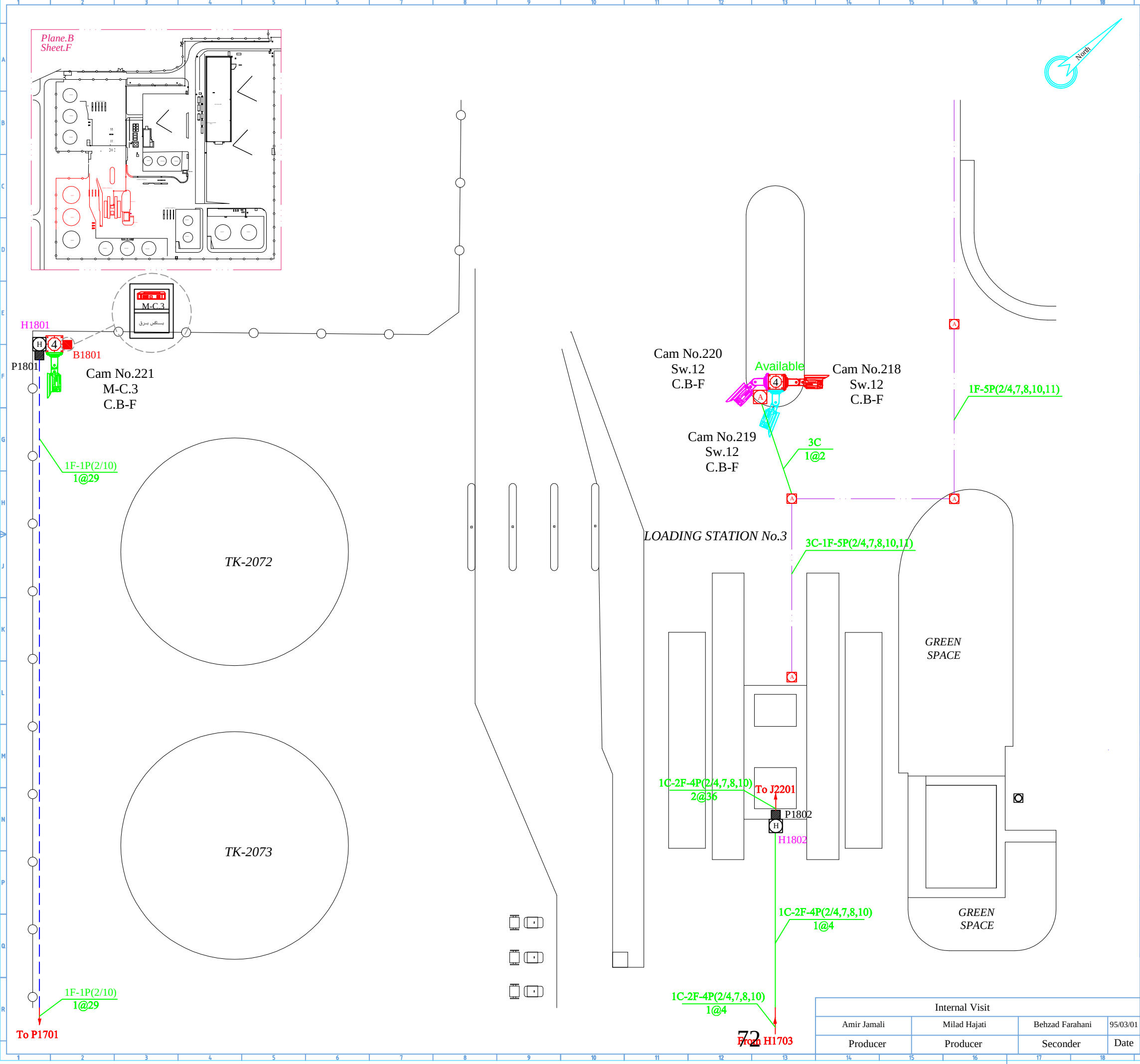
Scale: 1:600

Detail Designer

☐ Deneral Designer

Page:17 Of: 29

Internal Visit			
Amir Jamali	Milad Hajati	Behzad Farahani	95/03/01
Producer	Producer	Seconder	Date



Guidence Map

Symbol	Description	Number
	Camera Type (A)	1
	Camera Type (B)	1
	Camera Type (C)	1
	Camera Type (D)	1
	Camera Type (E)	0
	Camera Type (F)	0
	Camera Type (G)	0
	Camera Type (I)	0
	Camera Type (J)	0
	Camera Type (K)	0
	Camera Type (L)	0
	Camera Type (M)	0
	Camera Type (N)	0
	Junction	0
	Plastic Junction Boxes	0
	Metal Wall Boxes	2
	Switch Boxes	1
	Junction Box Following An External Camera	0
	Cafu	0
	Available Access Valves	0
	Access Valves	2
	Cassette Fiber Optic	0
	Client	0
	Well Earth	0
	Available Optical Fiber	
	PE Pipe	
	Steel Pipe	
	Coated Flexible Pipe	
	Gas Pipe	
	Duct	
	Network Cable	
	Power Cable	
	Earth Cable	
	Optical Fiber	

Project:

Jey Oil Refining Company

Title:

Map Location Equipment

Place:

Weighbridge Unite Area

Plan Number:

Jey Oil_cam_p(b-f)_950124_00

Employer:

Consultant:

Designer:

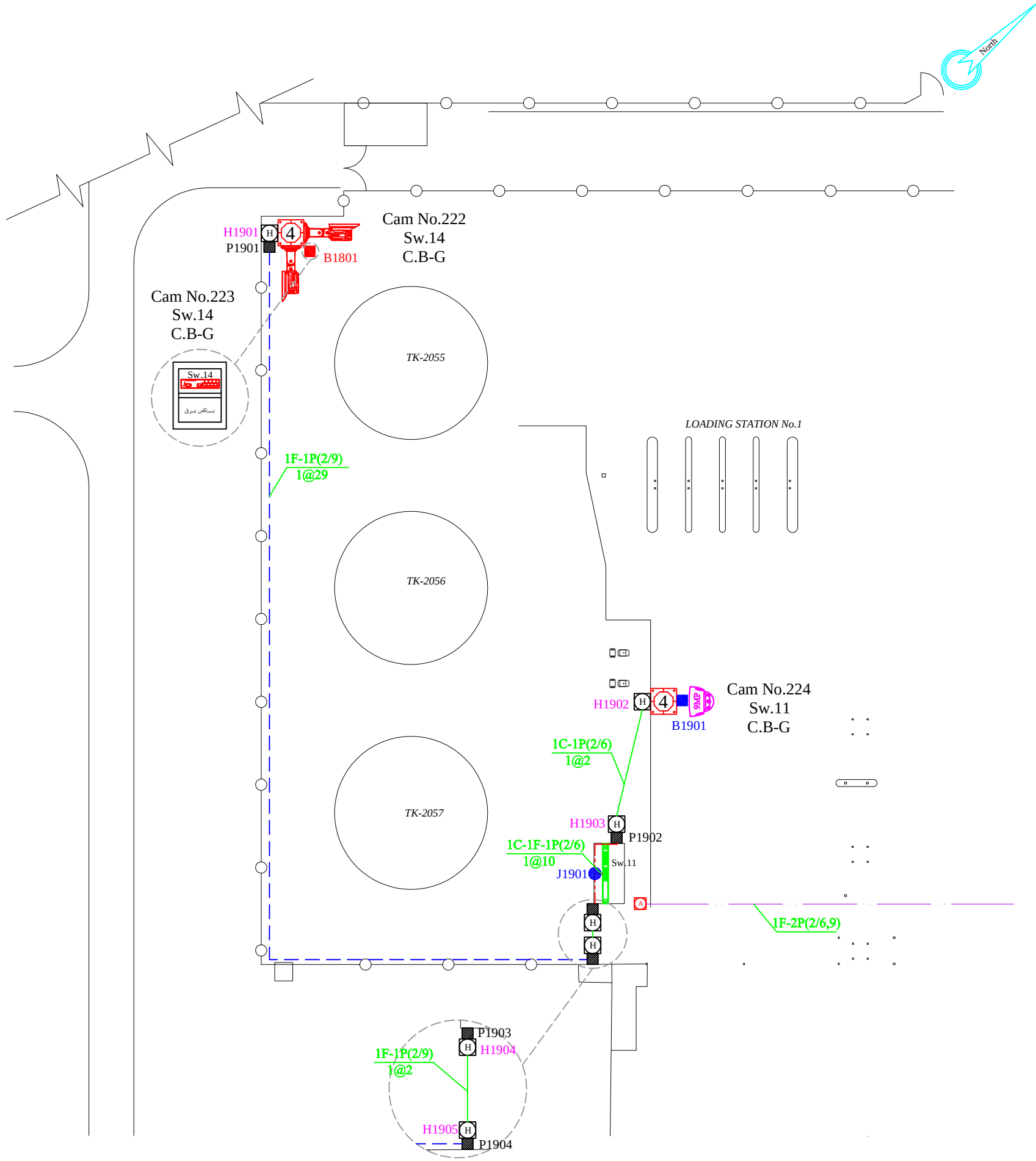
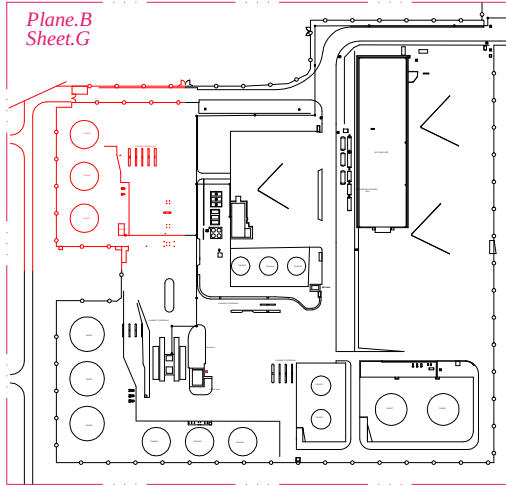
Scale: 1:600

Detail Designer

☐ Deneral Designer

☒ Page:18 Of: 29

Internal Visit			
Amir Jamali	Milad Hajati	Behzad Farahani	95/03/01
Producer	Producer	Seconder	Date



Guidence Map

Symbol	Description	Number
	Camera Type (A)	0
	Camera Type (B)	2
	Camera Type (C)	0
	Camera Type (D)	0
	Camera Type (E)	0
	Camera Type (F)	1
	Camera Type (G)	0
	Camera Type (I)	0
	Camera Type (J)	0
	Camera Type (K)	0
	Camera Type (L)	0
	Camera Type (M)	0
	Camera Type (N)	0
	Junction	0
	Plastic Junction Boxes	1
	Metal Wall Boxes	4
	Switch Boxes	1
	Junction Box Following An External Camera	1
	Cafu	0
	Available Access Valves	0
	Access Valves	5
	Cassette Fiber Optic	0
	Client	0
	Well Earth	0
	Available Optical Fiber	
	PE Pipe	
	Steel Pipe	
	Coated Flexible Pipe	
	Gas Pipe	
	Duct	
	Network Cable	
	Power Cable	
	Earth Cable	
	Optical Fiber	

Project: **Jey Oil Refining Company**

Title: **Map Location Equipment**

Place: **Loading Station Area**

Plan Number: **Jey Oil_cam_p(b-g)_950124_00**

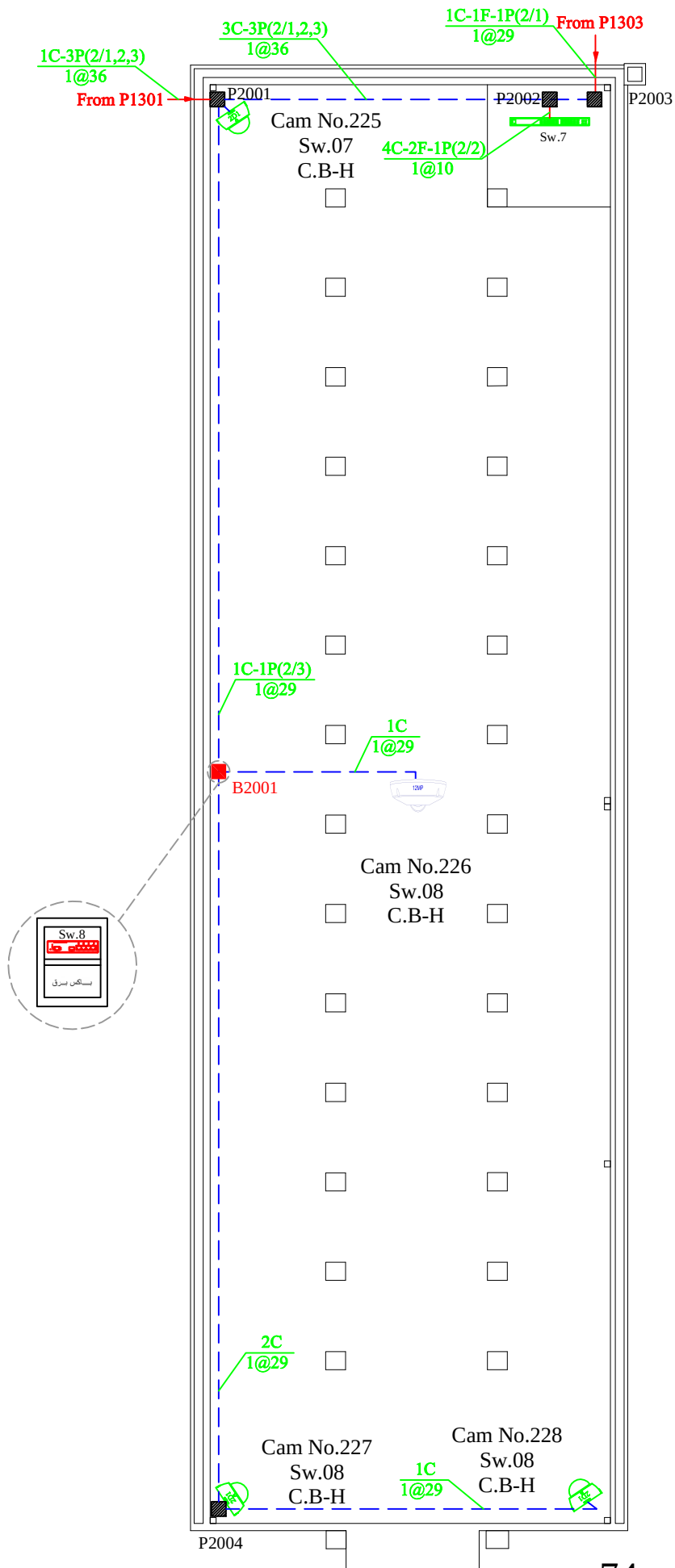
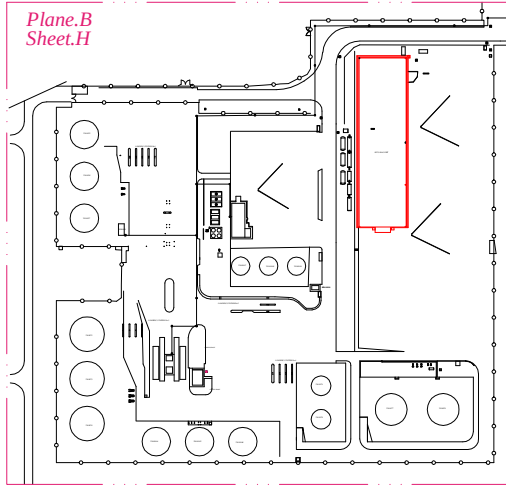
Employer:

Consultant:

Designer:

Internal Visit			
Amir Jamali	Milad Hajati	Behzad Farahani	95/03/01
Producer	Producer	Seconder	Date

Scale: 1:600 Detail Designer ☐ Deneral Designer ☒ Page:19 Of: 29



Guidence Map

Symbol	Description	Number
	Camera Type (A)	0
	Camera Type (B)	0
	Camera Type (C)	0
	Camera Type (D)	0
	Camera Type (E)	0
	Camera Type (F)	0
	Camera Type (G)	1
	Camera Type (I)	0
	Camera Type (J)	0
	Camera Type (K)	0
	Camera Type (L)	3
	Camera Type (M)	0
	Camera Type (N)	0
	Junction	0
	Plastic Junction Boxes	0
	Metal Wall Boxes	4
	Switch Boxes	1
	Junction Box Following An External Camera	0
	Cafu	0
	Available Access Valves	0
	Access Valves	0
	Cassette Fiber Optic	0
	Client	0
	Well Earth	0
	Available Optical Fiber	
	PE Pipe	
	Steel Pipe	
	Coated Flexible Pipe	
	Gas Pipe	
	Duct	
	Network Cable	
	Power Cable	
	Earth Cable	
	Optical Fiber	

Project: Jey Oil Refining Company

Title: Map Location Equipment

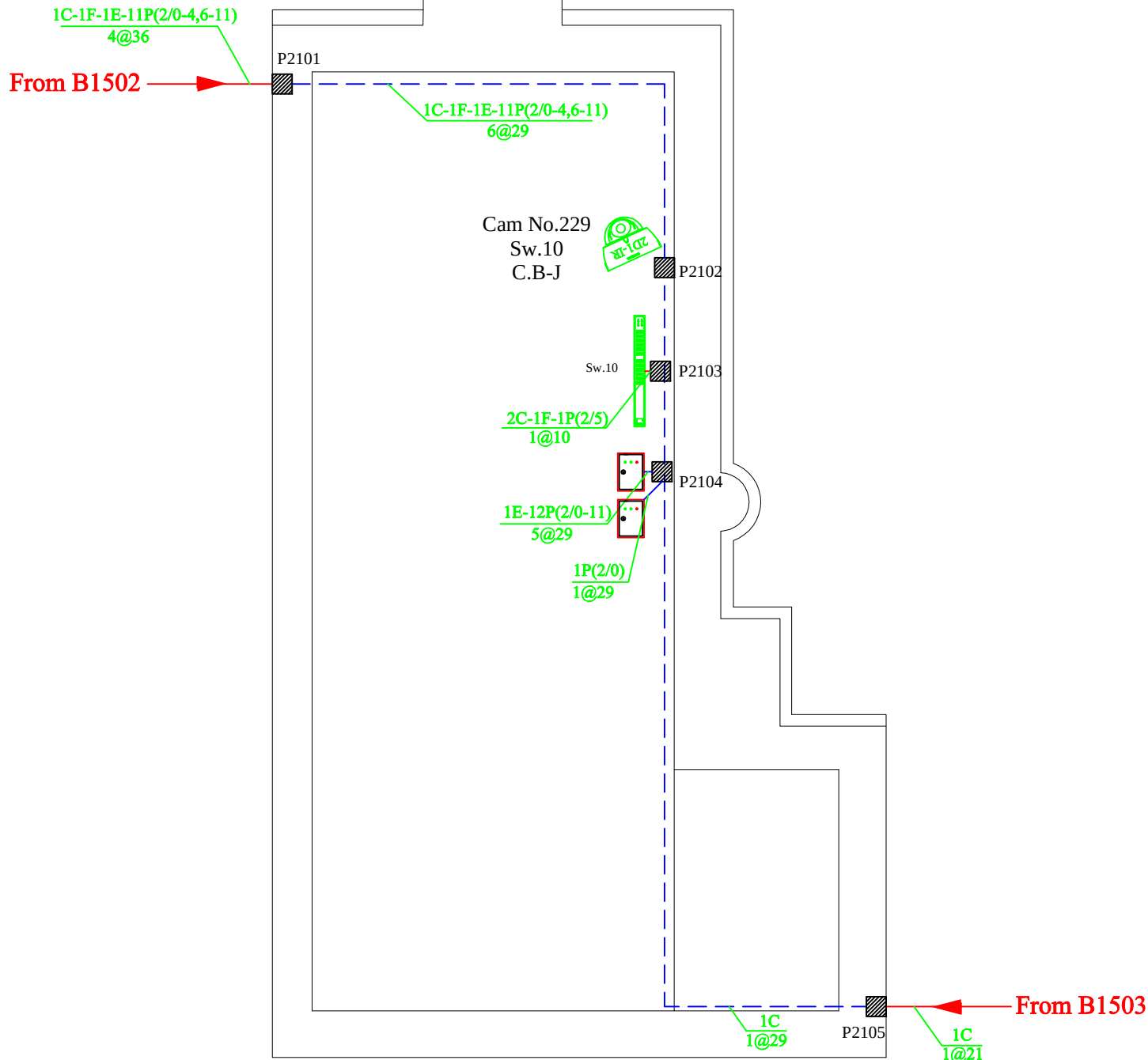
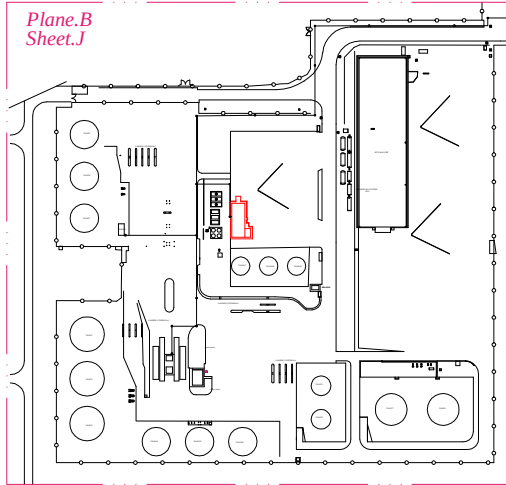
Place: Bitu-Bag Unit

Plan Number: Jey Oil_cam_p(b-h)_950124_00

Employer: 	Consultant: 	Designer:
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Scale: 1:500 Detail Designer ☐ Deneral Designer ☒ Page: 20 Of: 29

Internal Visit			
Amir Jamali	Milad Hajati	Behzad Farahani	95/03/01
Producer	Producer	Seconder	Date



Guidence Map

Symbol	Description	Number
	Camera Type (A)	0
	Camera Type (B)	0
	Camera Type (C)	0
	Camera Type (D)	0
	Camera Type (E)	0
	Camera Type (F)	0
	Camera Type (G)	0
	Camera Type (I)	0
	Camera Type (J)	0
	Camera Type (K)	1
	Camera Type (L)	0
	Camera Type (M)	0
	Camera Type (N)	0
	Junction	0
	Plastic Junction Boxes	0
	Metal Wall Boxes	5
	Switch Boxes	0
	Junction Box Following An External Camera	0
	Cafu	0
	Available Access Valves	0
	Access Valves	0
	Cassette Fiber Optic	0
	Client	0
	Well Earth	0
	Available Optical Fiber	
	PE Pipe	
	Steel Pipe	
	Coated Flexible Pipe	
	Gas Pipe	
	Duct	
	Network Cable	
	Power Cable	
	Earth Cable	
	Optical Fiber	

Project: Jey Oil Refining Company

Title: Map Location Equipment

Place: Drum Filling Building

Plan Number: Jey Oil_cam_p(b-j)_950124_00

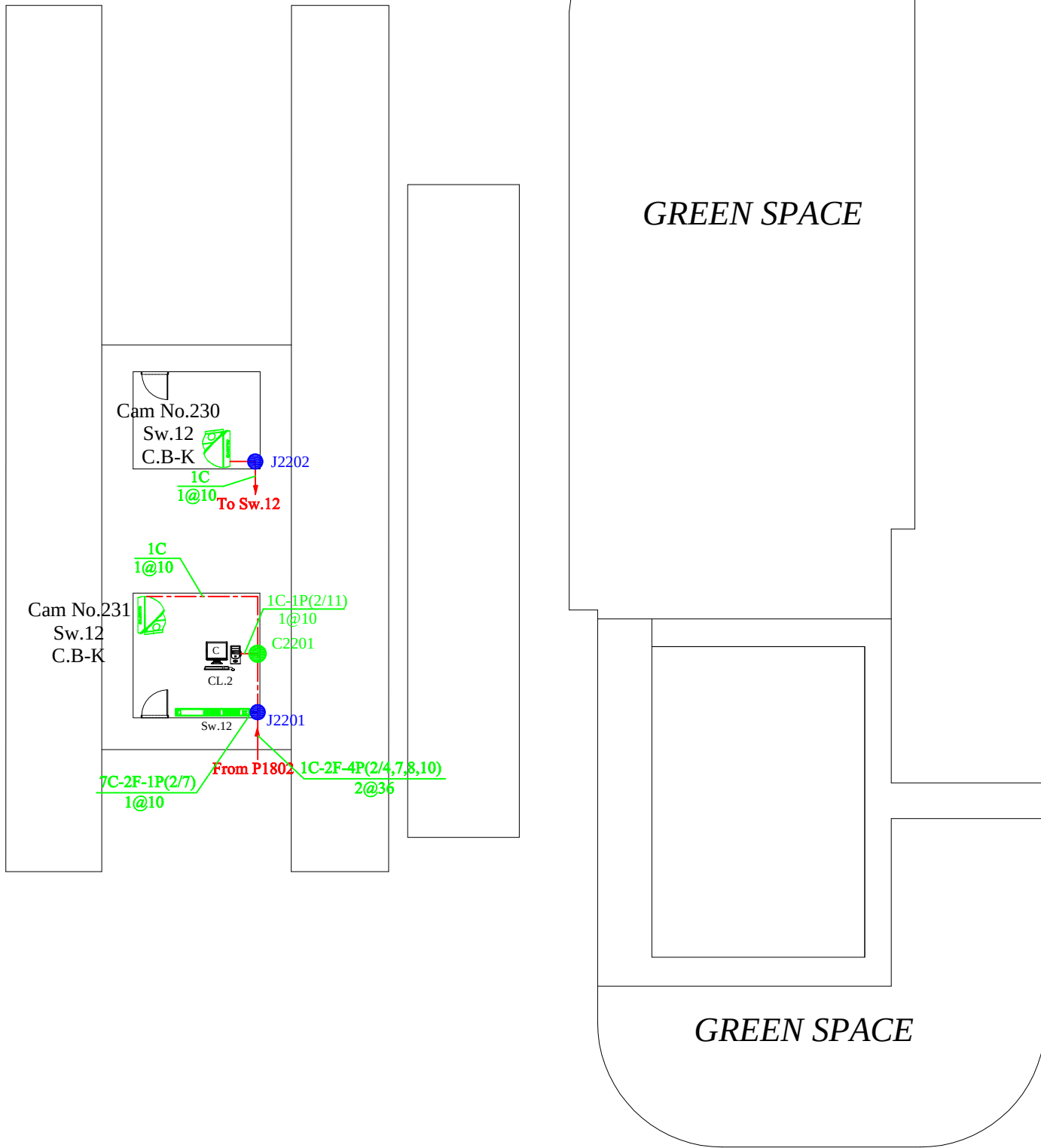
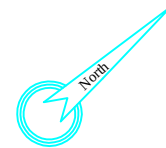
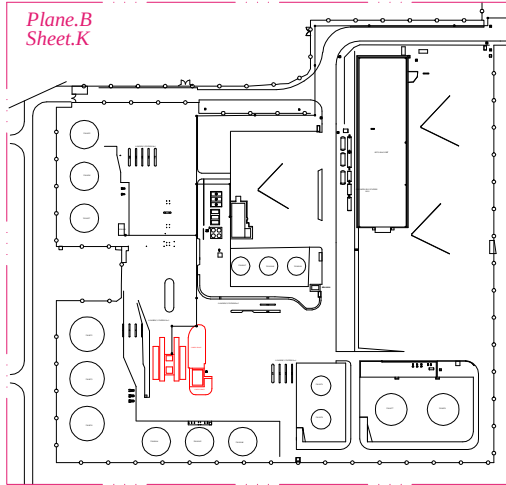
Employer:

Consultant:

Designer:

Scale: 1:150 Detail Designer ☐ Deneral Designer ☒ Page: 21 Of: 29

Internal Visit			
Amir Jamali	Milad Hajati	Behzad Farahani	95/03/01
Producer	Producer	Seconder	Date



Guidence Map

Symbol	Description	Number
	Camera Type (A)	0
	Camera Type (B)	0
	Camera Type (C)	0
	Camera Type (D)	0
	Camera Type (E)	0
	Camera Type (F)	0
	Camera Type (G)	0
	Camera Type (I)	0
	Camera Type (J)	0
	Camera Type (K)	0
	Camera Type (L)	0
	Camera Type (M)	2
	Camera Type (N)	0
	Junction	1
	Plastic Junction Boxes	2
	Metal Wall Boxes	0
	Switch Boxes	0
	Junction Box Following An External Camera	0
	Cafu	0
	Available Access Valves	0
	Access Valves	0
	Cassette Fiber Optic	0
	Client	1
	Well Earth	0
	Available Optical Fiber	
	PE Pipe	
	Steel Pipe	
	Coated Flexible Pipe	
	Gas Pipe	
	Duct	
	Network Cable	
	Power Cable	
	Earth Cable	
	Optical Fiber	

Project: Jey Oil Refining Company

Title: Map Location Equipment

Place: Weighbridge Unite

Plan Number: Jey Oil_cam_p(b-k)_950124_00

Employer:

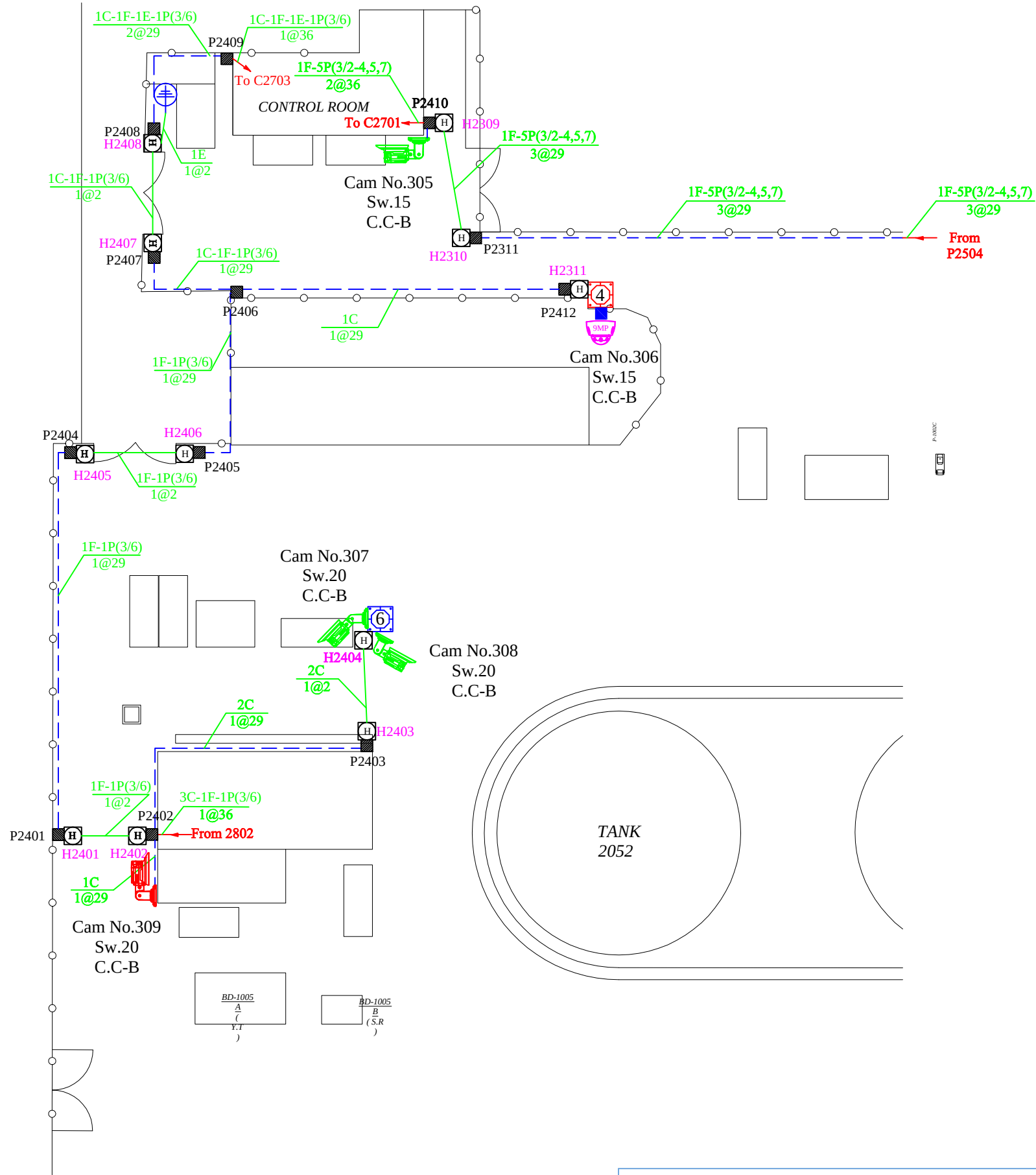
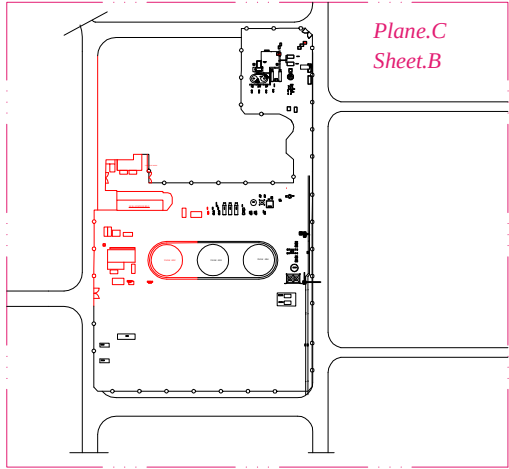
Consultant:

Designer:

Internal Visit			
Amir Jamali	Milad Hajati	Behzad Farahani	95/03/01
Producer	Producer	Seconder	Date

Scale: 1:200 Detail Designer ☐ Deneral Designer ☒ Page: 22 Of: 29

Plane C-Production

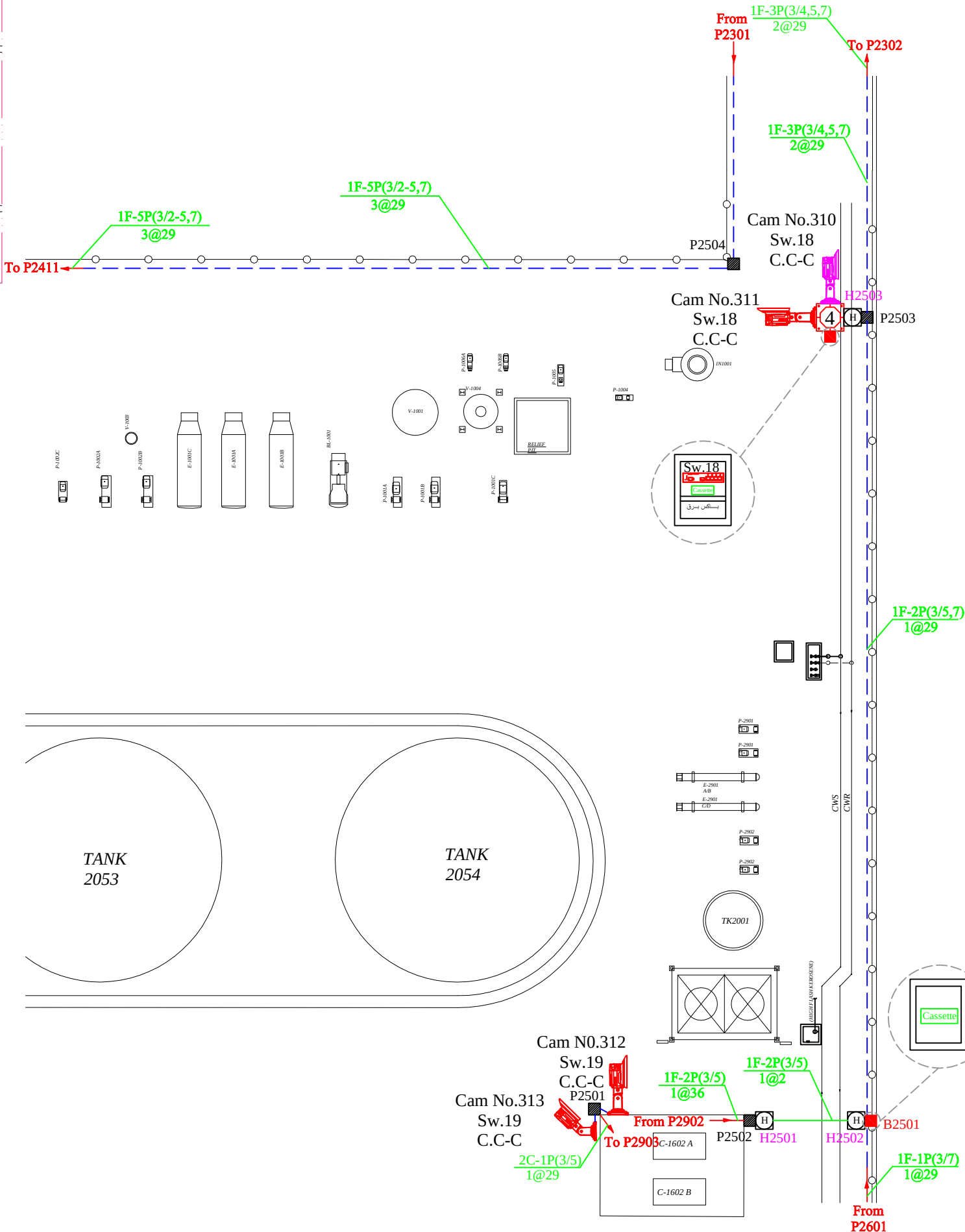
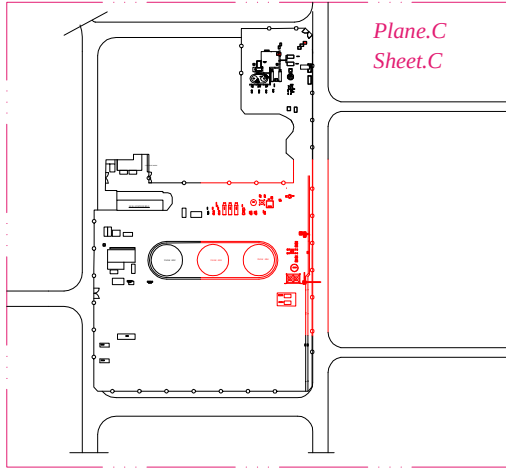


Guidence Map

Symbol	Description	Number
	Camera Type (A)	0
	Camera Type (B)	1
	Camera Type (C)	0
	Camera Type (D)	3
	Camera Type (E)	0
	Camera Type (F)	1
	Camera Type (G)	0
	Camera Type (I)	0
	Camera Type (J)	0
	Camera Type (K)	0
	Camera Type (L)	0
	Camera Type (M)	0
	Camera Type (N)	0
	Junction	0
	Plastic Junction Boxes	0
	Metal Wall Boxes	12
	Switch Boxes	0
	Junction Box Following An External Camera	1
	Cafu	0
	Available Access Valves	0
	Access Valves	11
	Cassette Fiber Optic	0
	Client	0
	Well Earth	1
	Available Optical Fiber	
	PE Pipe	
	Steel Pipe	
	Coated Flexible Pipe	
	Gas Pipe	
	Duct	
	Network Cable	
	Power Cable	
	Earth Cable	
	Optical Fiber	

Project: Jey Oil Refining Company		
Title: Map Location Equipment		
Place: Production Environment 3		
Plan Number: Jey Oil_cam_p(c-b)_950124_00		
Employer: 	Consultant: 	Designer:
Scale: 1:400		Detail Designer ☐ Deneral Designer ☒
Page: 24		Of: 29

Internal Visit			
Amir Jamali	Milad Hajati	Behzad Farahani	95/03/01
Producer	Producer	Seconder	Date



Guidence Map

Symbol	Description	Number
	Camera Type (A)	0
	Camera Type (B)	3
	Camera Type (C)	1
	Camera Type (D)	0
	Camera Type (E)	0
	Camera Type (F)	0
	Camera Type (G)	0
	Camera Type (I)	0
	Camera Type (J)	0
	Camera Type (K)	0
	Camera Type (L)	0
	Camera Type (M)	0
	Camera Type (N)	0
	Junction	0
	Plastic Junction Boxes	0
	Metal Wall Boxes	4
	Switch Boxes	2
	Junction Box Following An External Camera	0
	Cafu	0
	Available Access Valves	0
	Access Valves	3
	Cassette Fiber Optic	2
	Client	0
	Well Earth	0
	Available Optical Fiber	
	PE Pipe	
	Steel Pipe	
	Coated Flexible Pipe	
	Gas Pipe	
	Duct	
	Network Cable	
	Power Cable	
	Earth Cable	
	Optical Fiber	

Project: Jey Oil Refining Company

Title: Map Location Equipment

Place: Production Environment 2

Plan Number: Jey Oil_cam_p(c-c)_950124_00

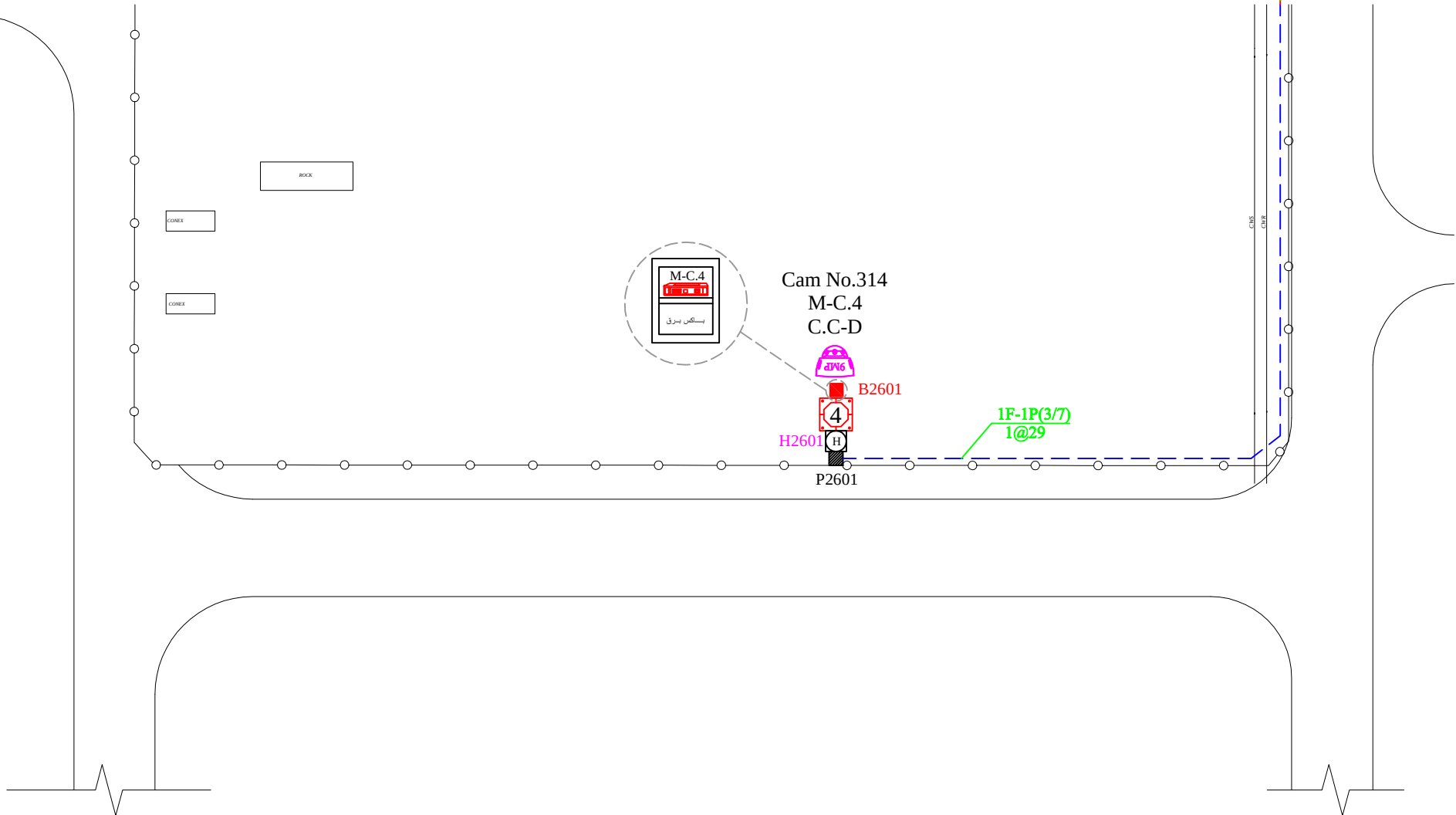
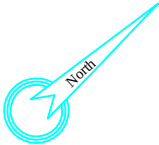
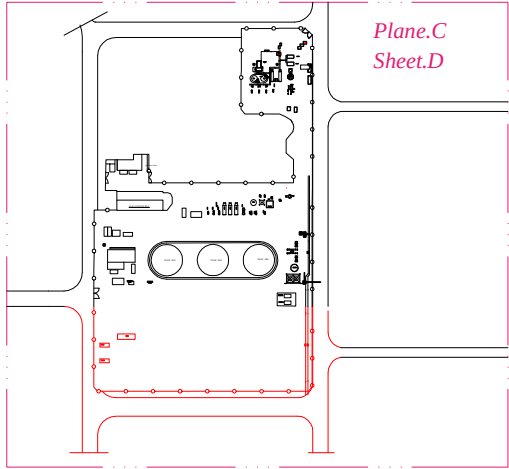
Employer:

Consultant:

Designer:

Internal Visit			
Amir Jamali	Milad Hajati	Behzad Farahani	95/03/01
Producer	Producer	Seconder	Date

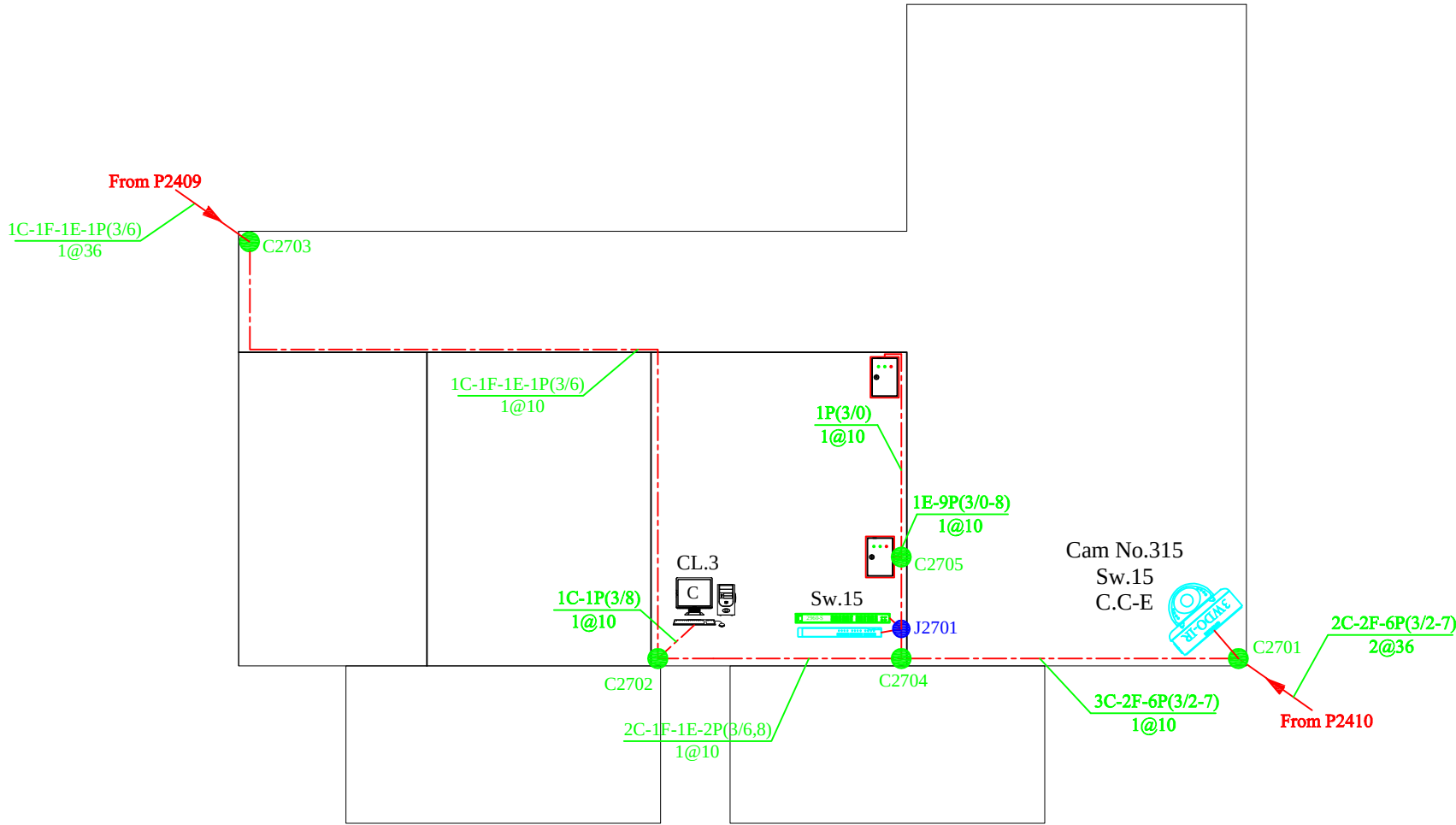
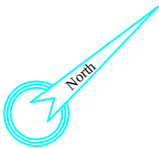
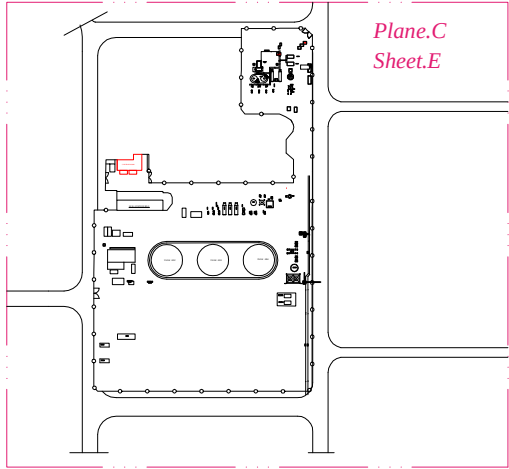
Scale: 1:400 Detail Designer ☐ Deneral Designer ☒ Page: 25 Of: 29



Guidence Map		
Symbol	Description	Number
	Camera Type (A)	0
	Camera Type (B)	0
	Camera Type (C)	0
	Camera Type (D)	0
	Camera Type (E)	0
	Camera Type (F)	1
	Camera Type (G)	0
	Camera Type (I)	0
	Camera Type (J)	0
	Camera Type (K)	0
	Camera Type (L)	0
	Camera Type (M)	0
	Camera Type (N)	0
	Junction	0
	Plastic Junction Boxes	0
	Metal Wall Boxes	1
	Switch Boxes	1
	Junction Box Following An External Camera	0
	Cafu	0
	Available Access Valves	0
	Access Valves	1
	Cassette Fiber Optic	0
	Client	0
	Well Earth	0
	Available Optical Fiber	
	PE Pipe	
	Steel Pipe	
	Coated Flexible Pipe	
	Gas Pipe	
	Duct	
	Network Cable	
	Power Cable	
	Earth Cable	
	Optical Fiber	

Project: Jey Oil Refining Company		
Title: Map Location Equipment		
Place: Drum Filling Area		
Plan Number: Jey Oil_cam_p(c-d)_950124_00		
Employer: 	Consultant: 	Designer:
Scale: 1:700	Detail Designer ☐ General Designer ☒	Page: 26 Of: 29

Internal Visit			
Amir Jamali	Milad Hajati	Behzad Farahani	95/03/01
Producer	Producer	Secunder	Date

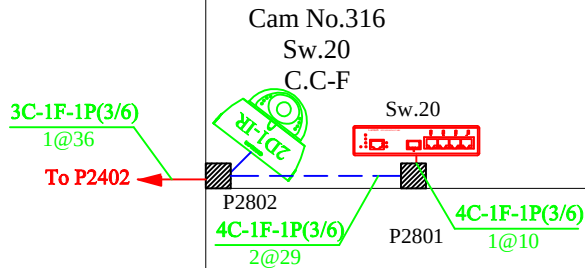
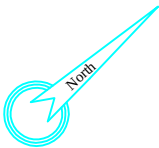
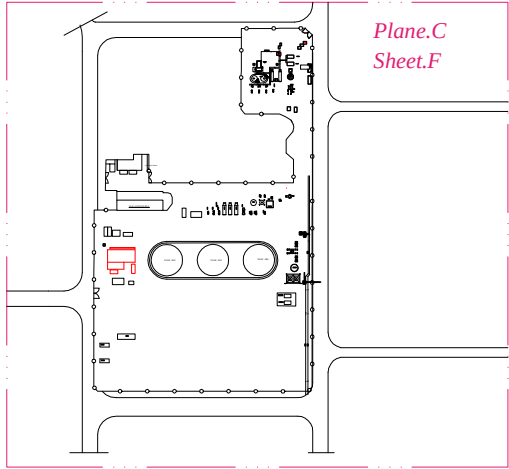


Guidence Map

Symbol	Description	Number
	Camera Type (A)	0
	Camera Type (B)	0
	Camera Type (C)	0
	Camera Type (D)	0
	Camera Type (E)	0
	Camera Type (F)	0
	Camera Type (G)	0
	Camera Type (I)	0
	Camera Type (J)	1
	Camera Type (K)	0
	Camera Type (L)	0
	Camera Type (M)	0
	Camera Type (N)	0
	Junction	4
	Plastic Junction Boxes	1
	Metal Wall Boxes	0
	Switch Boxes	0
	Junction Box Following An External Camera	0
	Cafu	0
	Available Access Valves	0
	Access Valves	0
	Cassette Fiber Optic	0
	Client	1
	Well Earth	0
	Available Optical Fiber	
	PE Pipe	
	Steel Pipe	
	Coated Flexible Pipe	
	Gas Pipe	
	Duct	
	Network Cable	
	Power Cable	
	Earth Cable	
	Optical Fiber	

Project:	Jey Oil Refining Company		
Title:	Map Location Equipment		
Place:	Production Control Room		
Plan Number:	Jey Oil_cam_p(c-e)_950124_00		
Employer:	Consultant:	Designer:	
Scale: 1:100	Detail Designer ☐	Deneral Designer ☒	Page: 27 Of: 29

Internal Visit			
Amir Jamali	Milad Hajati	Behzad Farahani	95/03/01
Producer	Producer	Seconder	Date

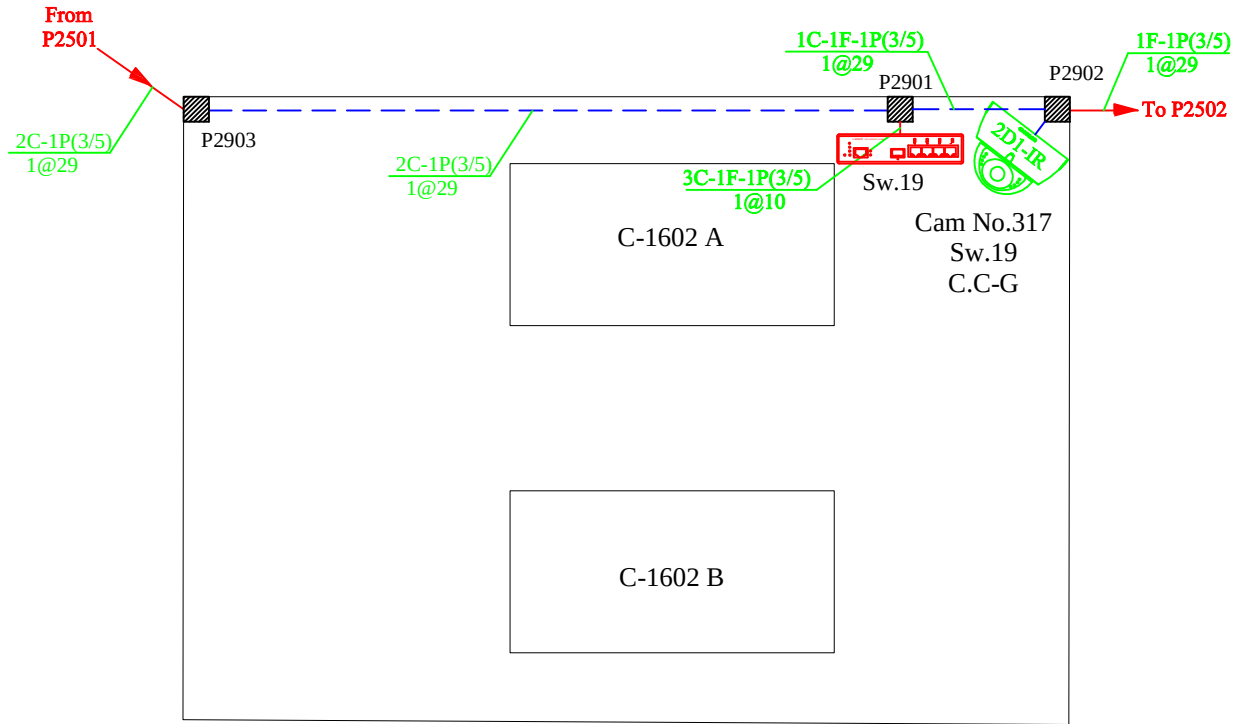
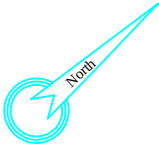
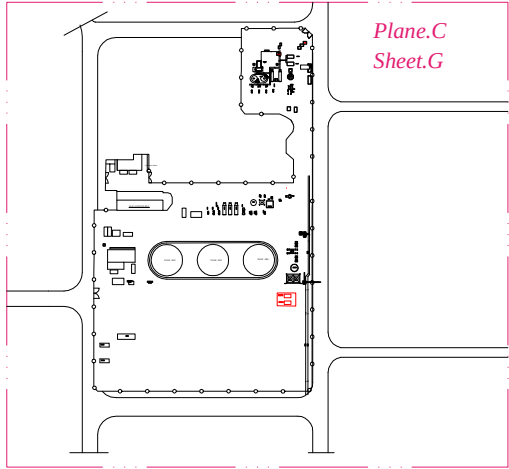


Guidence Map

Symbol	Description	Number
	Camera Type (A)	0
	Camera Type (B)	0
	Camera Type (C)	0
	Camera Type (D)	0
	Camera Type (E)	0
	Camera Type (F)	0
	Camera Type (G)	0
	Camera Type (I)	0
	Camera Type (J)	0
	Camera Type (K)	1
	Camera Type (L)	0
	Camera Type (M)	0
	Camera Type (N)	0
	Junction	0
	Plastic Junction Boxes	0
	Metal Wall Boxes	2
	Switch Boxes	0
	Junction Box Following An External Camera	0
	Cafu	0
	Available Access Valves	0
	Access Valves	0
	Cassette Fiber Optic	0
	Client	0
	Well Earth	0
	Available Optical Fiber	
	PE Pipe	
	Steel Pipe	
	Coated Flexible Pipe	
	Gas Pipe	
	Duct	
	Network Cable	
	Power Cable	
	Earth Cable	
	Optical Fiber	

Project: Jey Oil Refining Company		
Title: Map Location Equipment		
Place: Were House Production		
Plan Number: Jey Oil_cam_p(c-f)_950124_00		
Employer: 	Consultant: 	Designer:
Scale: 1:100	Detail Designer ☐ General Designer ☒	Page: 28 Of: 29

Internal Visit			
Amir Jamali	Milad Hajati	Behzad Farahani	95/03/01
Producer	Producer	Seconder	Date



Guidence Map

Symbol	Description	Number
	Camera Type (A)	0
	Camera Type (B)	0
	Camera Type (C)	0
	Camera Type (D)	0
	Camera Type (E)	0
	Camera Type (F)	0
	Camera Type (G)	0
	Camera Type (I)	0
	Camera Type (J)	0
	Camera Type (K)	1
	Camera Type (L)	0
	Camera Type (M)	0
	Camera Type (N)	0
	Junction	0
	Plastic Junction Boxes	0
	Metal Wall Boxes	3
	Switch Boxes	0
	Junction Box Following An External Camera	0
	Cafu	0
	Available Access Valves	0
	Access Valves	0
	Cassette Fiber Optic	0
	Client	0
	Well Earth	0
	Available Optical Fiber	
	PE Pipe	
	Steel Pipe	
	Coated Flexible Pipe	
	Gas Pipe	
	Duct	
	Network Cable	
	Power Cable	
	Earth Cable	
	Optical Fiber	

Project: Jey Oil Refining Company

Title: Map Location Equipment

Place: Installation building

Plan Number: Jey Oil_cam_p(c-g)_950124_00

Employer:

Consultant:

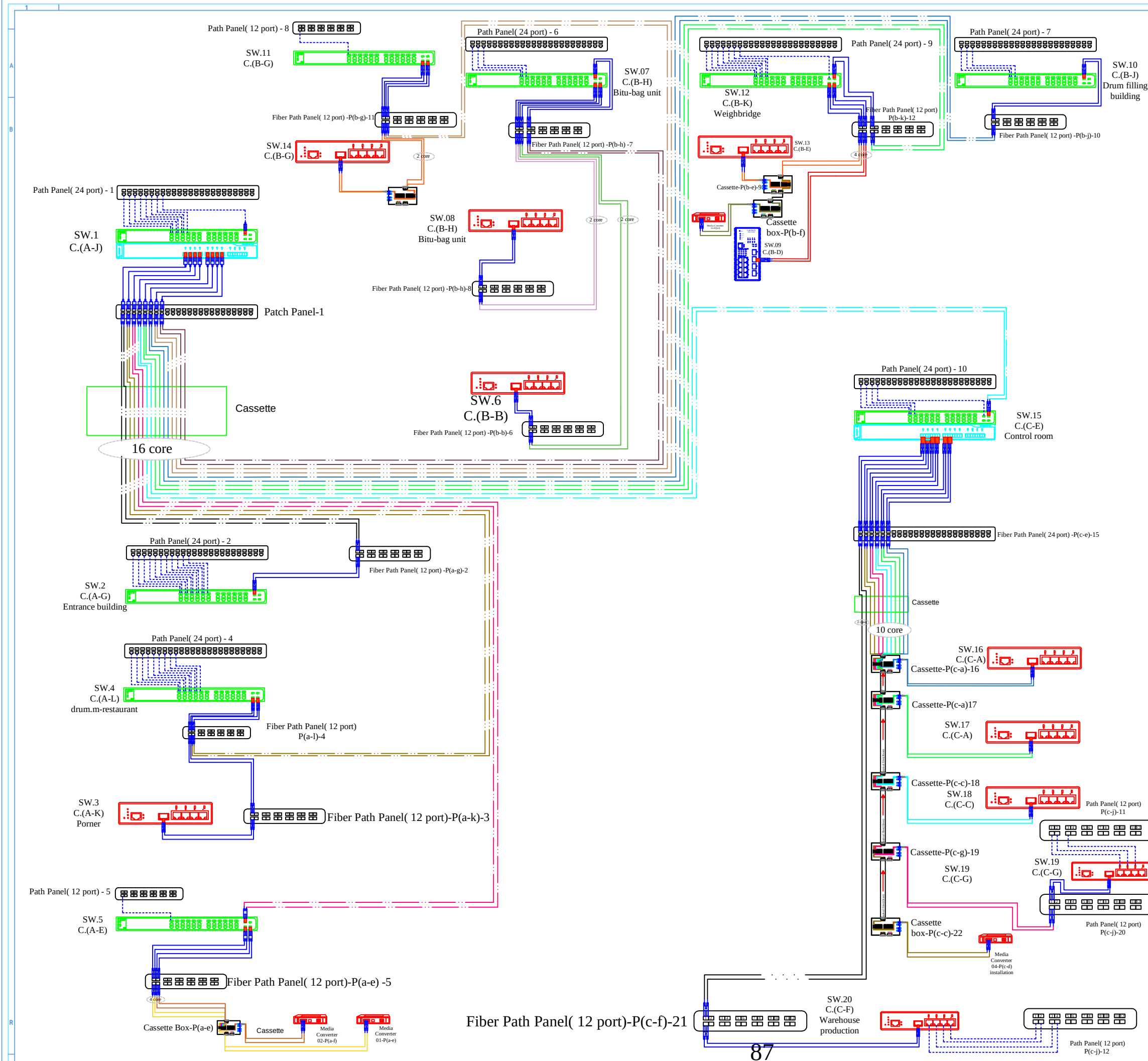
Designer:

Internal Visit			
Amir Jamali	Milad Hajati	Behzad Farahani	95/03/01
Producer	Producer	Seconder	Date

Scale: 1:100 Detail Designer General Designer Page: 29 Of: 29

Season Fourth - Diagram Communication Equipment

Diagram of the entire project at a glance



Guidence Map

Symbol	Description	Number
	Switch A	9
	Switch B	2
	Switch C	10
	Switch D	1
	Media Converter	4
	Path Panel(24 port)	6
	Fiber Path Panel(24 port)	2
	Fiber Path Panel&patch panel(12 port)	14
	Cassette Box	8
	Cassette	3
	Transceiver	37
	Path core	36
	Pigtail	42
	optical Fibre(available)	
	optical Fibre(used)	
	Network cable	

Project:

Jey Oil Refining Company

Title:

Map Communication Systems Equipment(Switch)

Place:

Overview

Plan Number:

Jey Oil_bld_(over view)_950301-00

Employer:

Consultant:

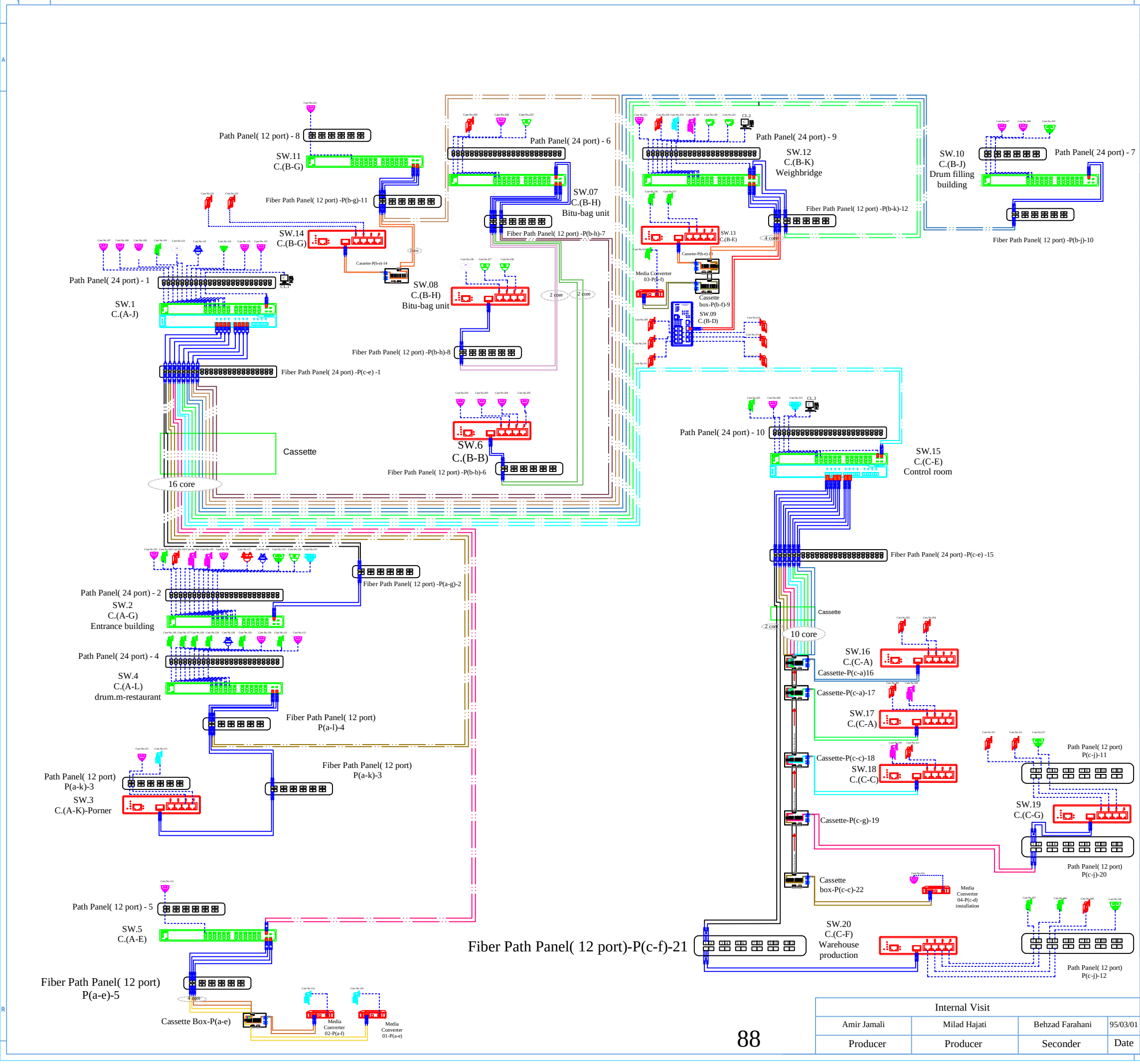
Designer:

Scale: None

Detail Designer

☐ Deneral Designer

☒ Page:1 Of: 11



Guidence Map

Symbol	Description	Number
	Camera Type (A)	4
	Camera Type (B)	18
	Camera Type (C)	5
	Camera Type (D)	13
	Camera Type (E)	2
	Camera Type (F)	19
	Camera Type (G)	0
	Camera Type (I)	1
	Camera Type (J)	1
	Camera Type (K)	4
	Camera Type (L)	5
	Camera Type (M)	2
	Camera Type (N)	3
	Client	3
	Switch A	9
	Switch B	2
	Switch C	10
	Switch D	1
	Media Converter	4
	Path Panel(24 port)	6
	Fiber Path Panel(24 port)	2
	Fiber Path Panel&patch panel(12 port)	14
	Cassette Box	8
	Cassette	3
	Transceiver	37
	Path core	36
	Pigtail	42
	optical Fibre(available)	
	optical Fibre(used)	
	Network cable	

Project:

Title: **Map Communication Systems Equipment(Switch)**

Place:

Plan Number: **Jey Oil_bld_(over view)_950301-00**

Employer:

Consultant:

Designer:

Scale: None

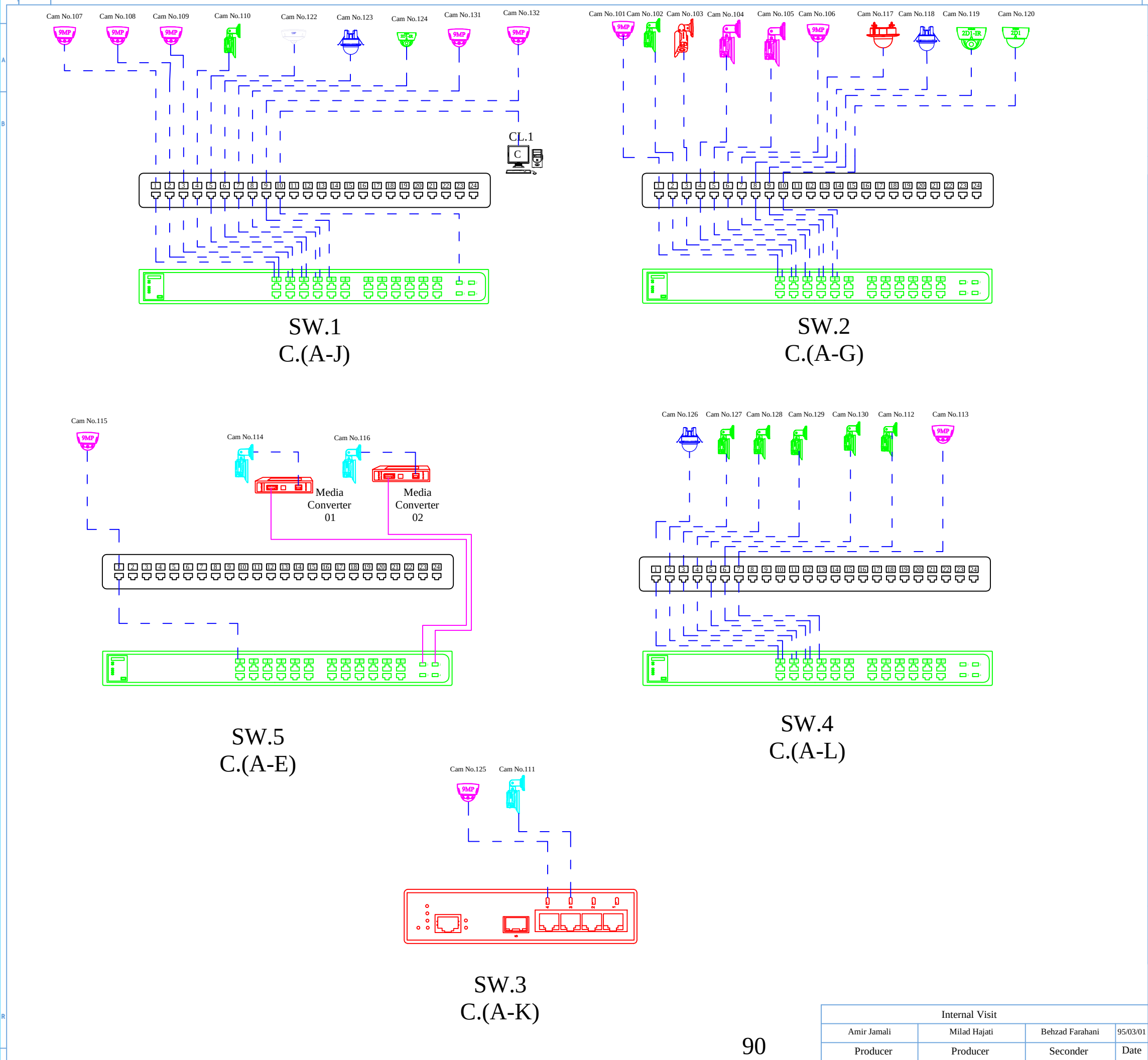
Detail Designer

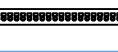
Deneral Designer

Page: 2 Of: 11

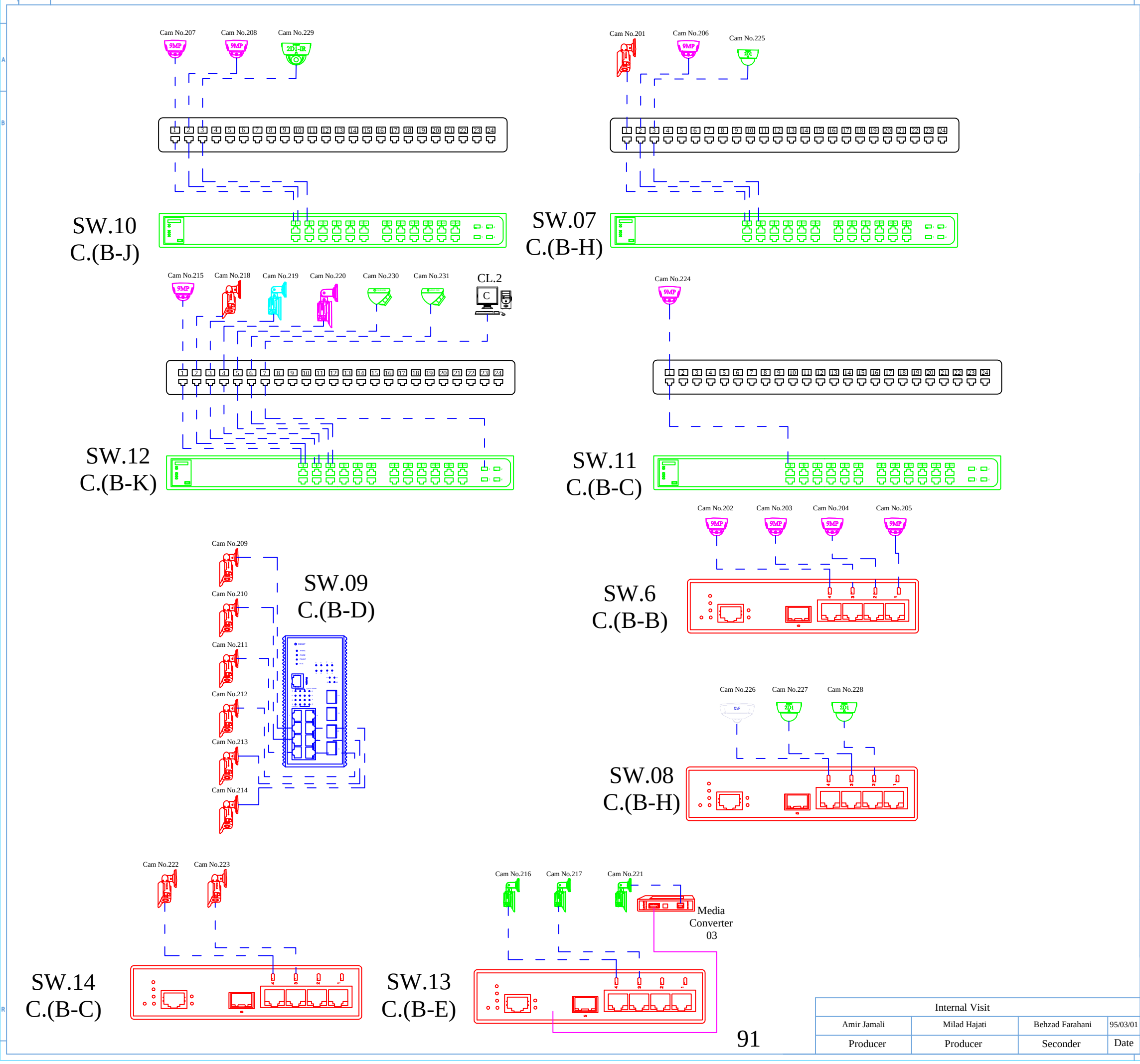
Internal Visit			
Amir Jamali	Milad Hajati	Behzad Farahani	95/03/01
Producer	Producer	Secunder	Date

Diagram Communication Equipment



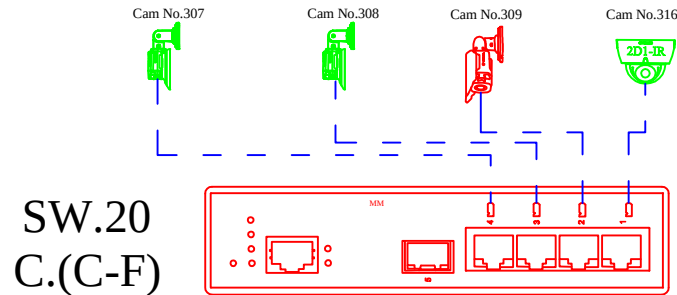
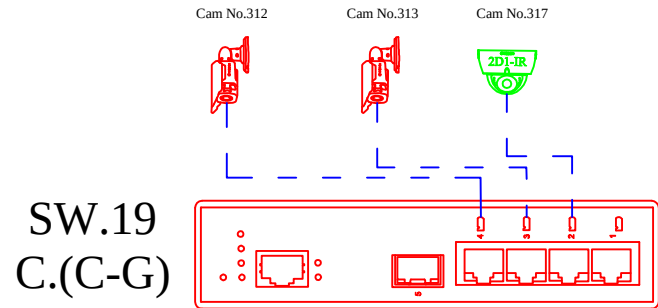
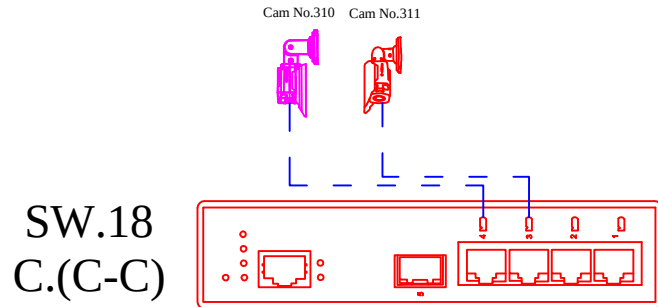
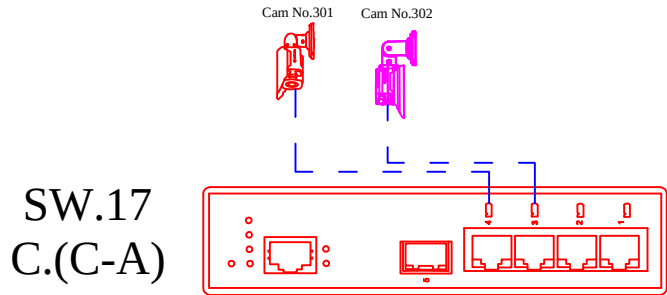
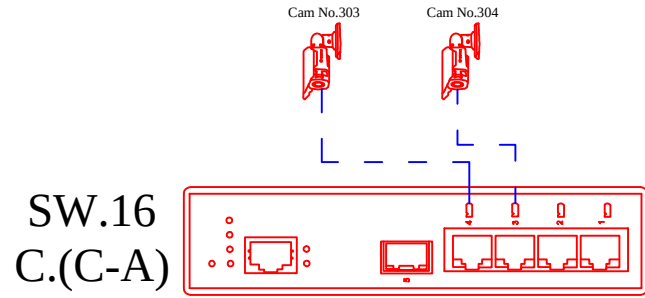
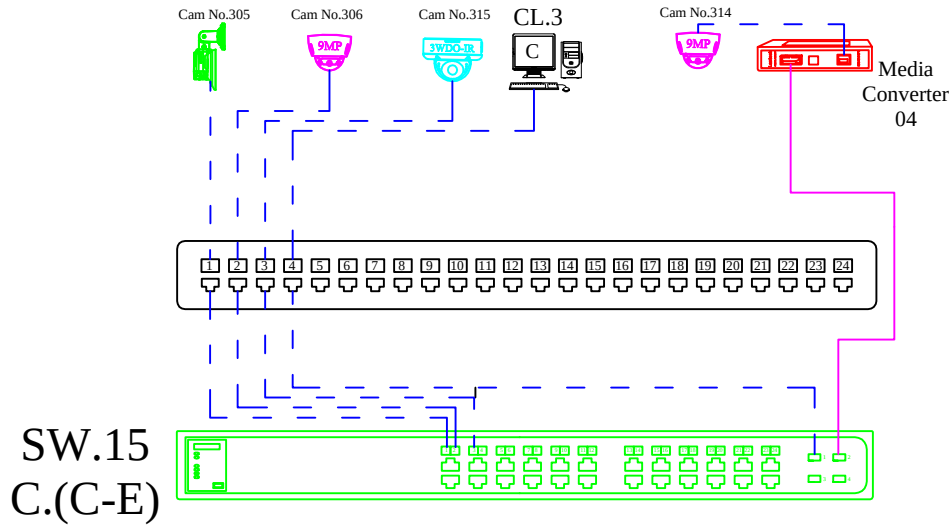
Guidence Map			
Symbol	Description		Number
	Camera Type	(A)	3
	Camera Type	(B)	1
	Camera Type	(C)	2
	Camera Type	(D)	7
	Camera Type	(E)	1
	Camera Type	(F)	8
	Camera Type	(G)	0
	Camera Type	(I)	1
	Camera Type	(J)	0
	Camera Type	(K)	2
	Camera Type	(L)	1
	Camera Type	(M)	0
	Camera Type	(N)	3
	Switch A		4
	Switch B		0
	Switch C		1
	Switch D		0
	Media Converter		2
	Client		1
	Path Panel(24 port)		
	optical Fibre(available)		
	optical Fibre(used)		
	Network cable		
Project: Jey Oil Refining Company			
Title: Map Communication Systems Equipment(Switch)			
Place: A-Plane			
Plan Number: Jey Oil_bld_(A-Plane)_950301-00			
Employer:		Consultant:	Designer:
			
Scale: None		Detail Designer ☐	General Designer ☒ Page: 3 Of: 11

Internal Visit			
Amir Jamali	Milad Hajati	Behzad Farahani	95/03/01
Producer	Producer	Seconder	Date



Guidence Map		
Symbol	Description	Number
	Camera Type (A)	1
	Camera Type (B)	10
	Camera Type (C)	1
	Camera Type (D)	3
	Camera Type (E)	1
	Camera Type (F)	9
	Camera Type (G)	0
	Camera Type (I)	0
	Camera Type (J)	0
	Camera Type (K)	0
	Camera Type (L)	4
	Camera Type (M)	2
	Camera Type (N)	0
	Switch A	4
	Switch B	0
	Switch C	4
	Switch D	1
	Media Converter	1
	Client	1
	optical Fibre(available)	
	optical Fibre(used)	
	Network cable	
Project: Jey Oil Refining Company		
Title: Map Communication Systems Equipment(Switch)		
Place: B - Plane		
Plan Number: Jey Oil_bld_(B-Plane)_950301-00		
Employer: 	Consultant: 	Designer:
Scale: None Detail Designer ☐ Deneral Designer ☒ Page: 4 Of: 11		

Internal Visit			
Amir Jamali	Milad Hajati	Behzad Farahani	95/03/01
Producer	Producer	Seconder	Date



Guidence Map

Symbol	Description	Number
	Camera Type (A)	0
	Camera Type (B)	7
	Camera Type (C)	2
	Camera Type (D)	3
	Camera Type (E)	0
	Camera Type (F)	2
	Camera Type (G)	0
	Camera Type (I)	0
	Camera Type (J)	1
	Camera Type (K)	2
	Camera Type (L)	0
	Camera Type (M)	0
	Camera Type (N)	0
	Switch A	1
	Switch B	0
	Switch C	5
	Switch D	0
	Media Converter	1
	Client	1
	optical Fibre(available)	
	optical Fibre(used)	
	Network cable	

Project: **Jey Oil Refining Company**

Title: **Map Communication Systems Equipment(Switch)**

Place: **C - Plane**

Plan Number: **Jey Oil_bld_(C-Plane)_950301-00**

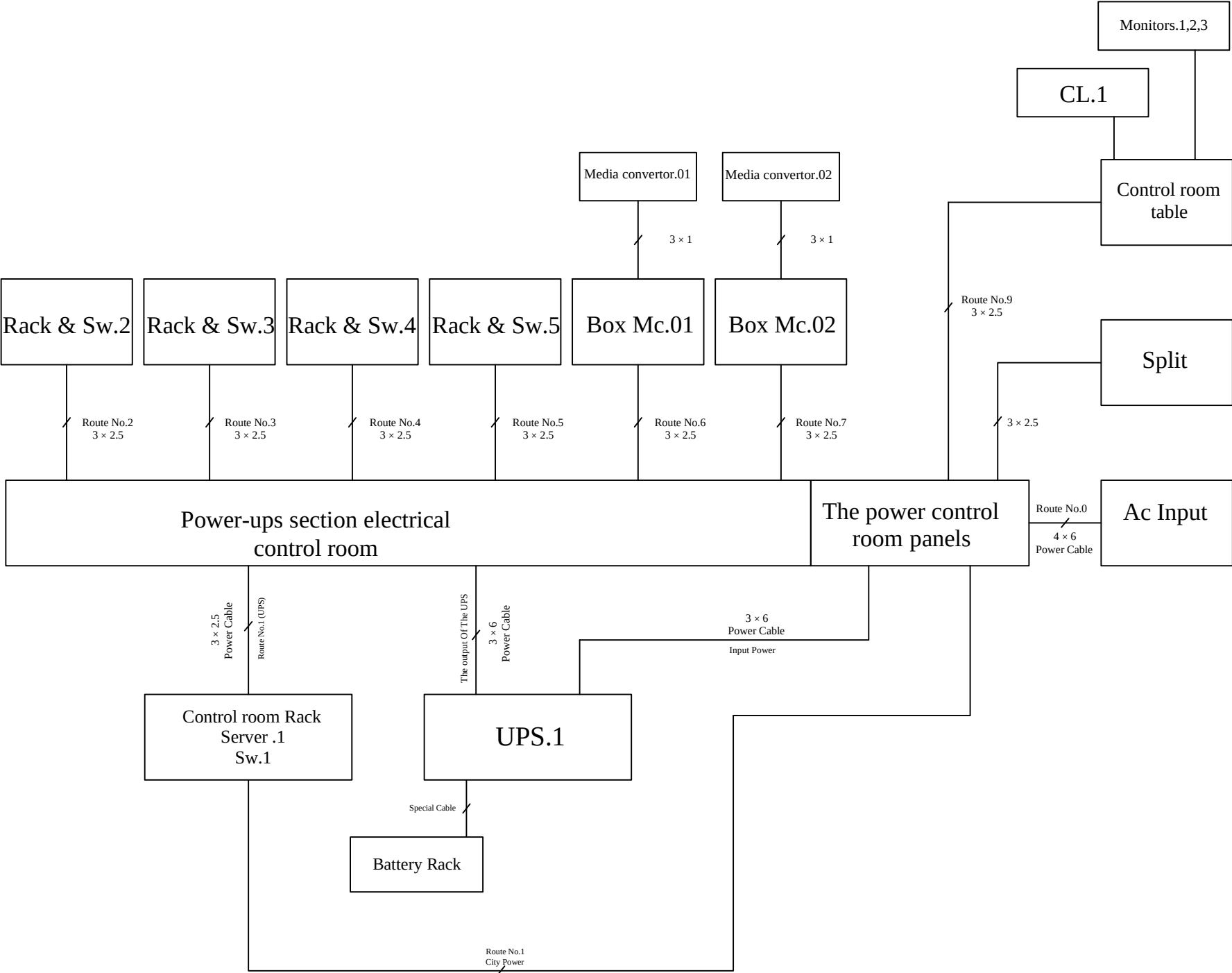
Employer: 	Consultant: 	Designer: 
--	--	--

Scale: None Detail Designer ☐ Deneral Designer ☒ Page: 5 Of: 11

Internal Visit

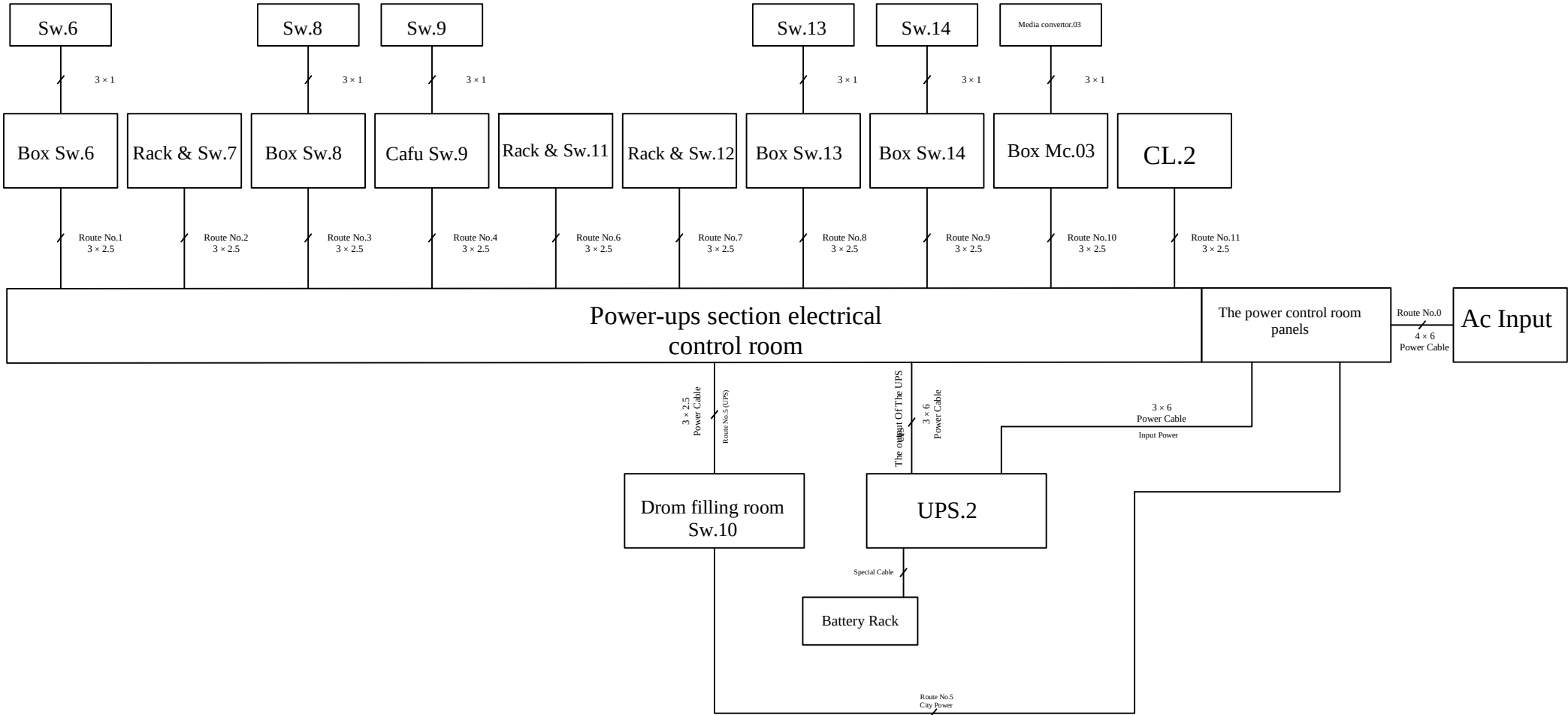
Amir Jamali	Milad Hajati	Behzad Farahani	95/03/01
Producer	Producer	Secunder	Date

Diagram Power Equipment



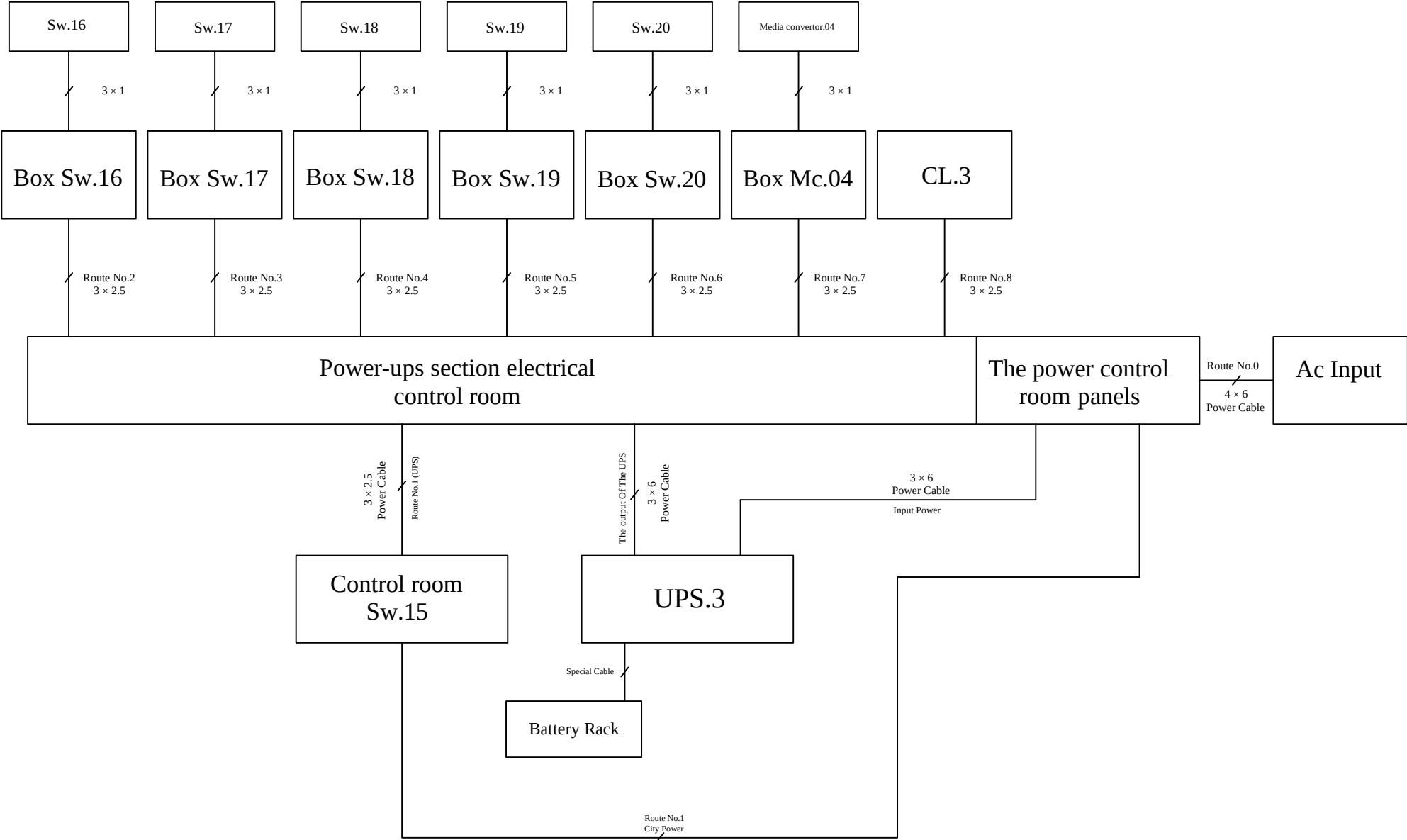
Project: Jey Oil Refining Company	
Title: Map Communication Systems Equipment	
Place: Dose not	
Plan Number: Jey Oil_bld_(A~Plane)_950301-00	
Employer: 	Consultant: 
Designer: 	
Scale: None	Detail Designer ☐ Deneral Designer ☒ Page: 6 Of: 11

Internal Visit			
Amir Jamali	Milad Hajati	Behzad Farahani	95/03/01
Producer	Producer	Seconder	Date



Project:		Jey Oil Refining Company		
Title:		Map Communication Systems Equipment		
Place:		Dose not		
Plan Number:		Jey Oil_bld_(B-Plane)_950301-00		
Employer:		Consultant:	Designer:	
				
Scale: None	Detail Designer	☐ Deneral Designer	☒	Page: 7 Of: 11

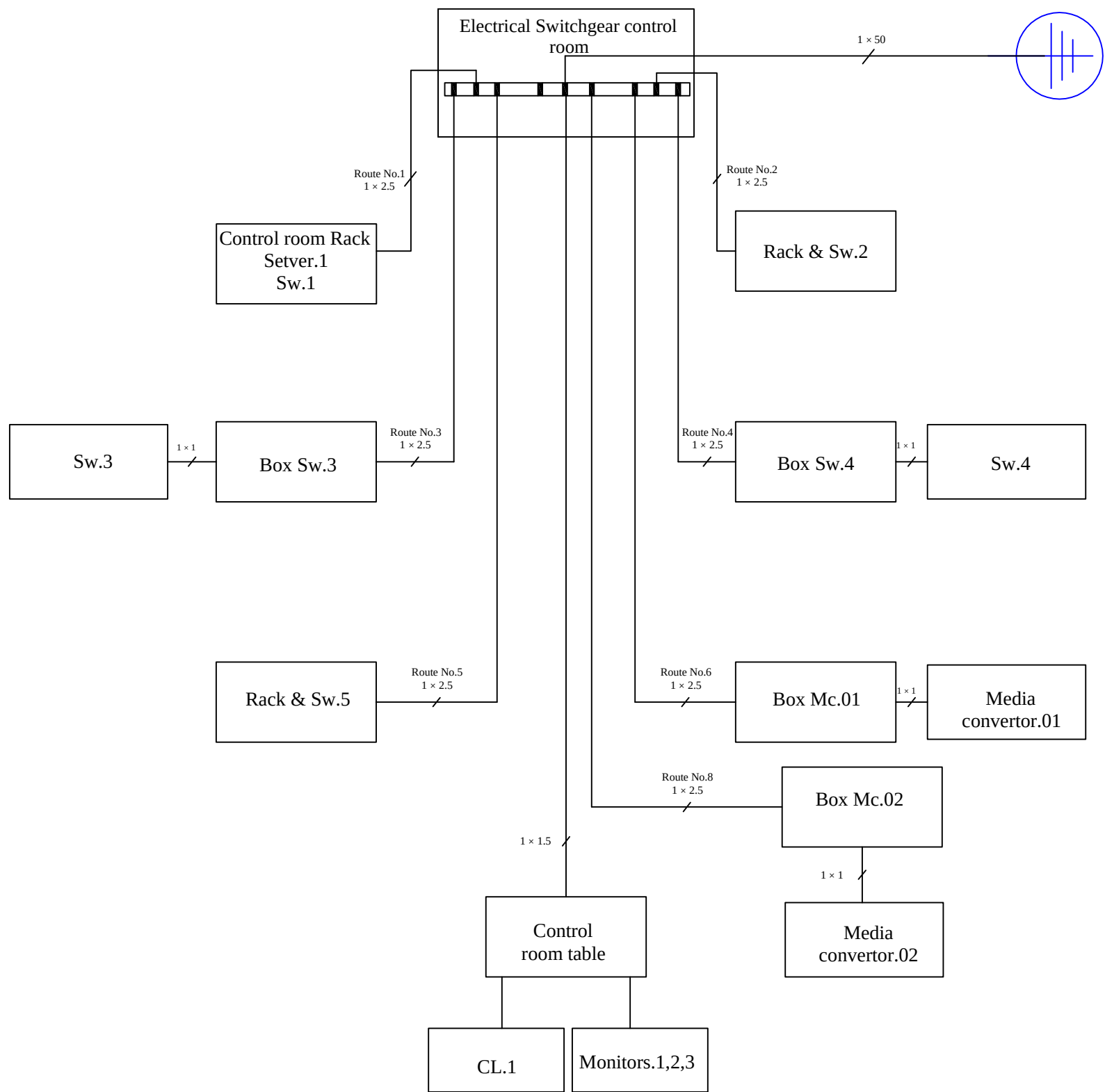
Internal Visit			
Amir Jamali	Milad Hajati	Behzad Farahani	95/03/01
Producer	Producer	Seconder	Date



Project:		Jey Oil Refining Company		
Title:		Map Communication Systems Equipment		
Place:		Dose not		
Plan Number:		Jey Oil_bld_(C-Plane)_950301-00		
Employer:		Consultant:	Designer:	
				
Scale: None		Detail Designer ☐	Deneral Designer ☒	Page:8 Of: 11

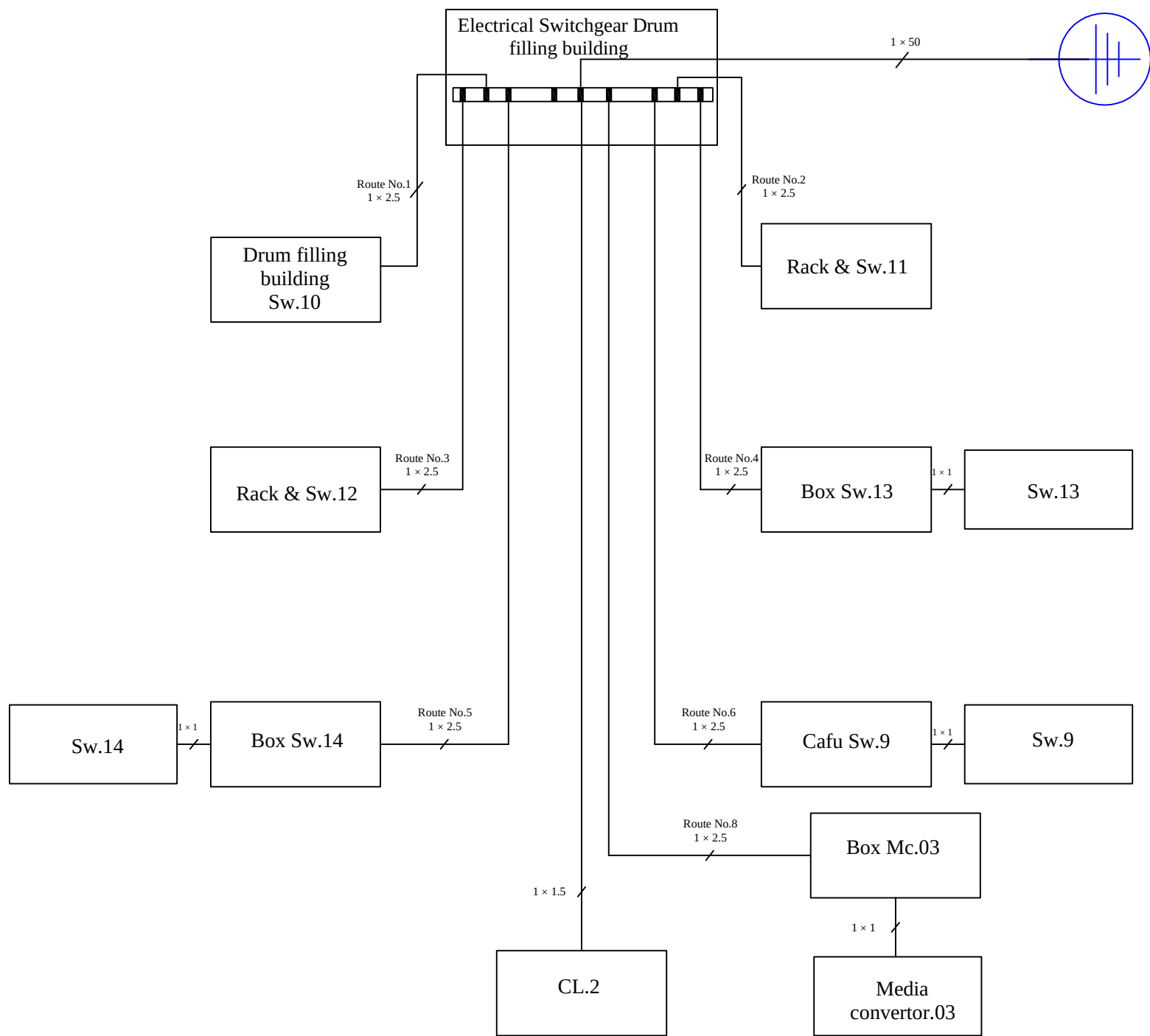
Internal Visit			
Amir Jamali	Milad Hajati	Behzad Farahani	95/03/01
Producer	Producer	Seconder	Date

Diagram Earth Equipment



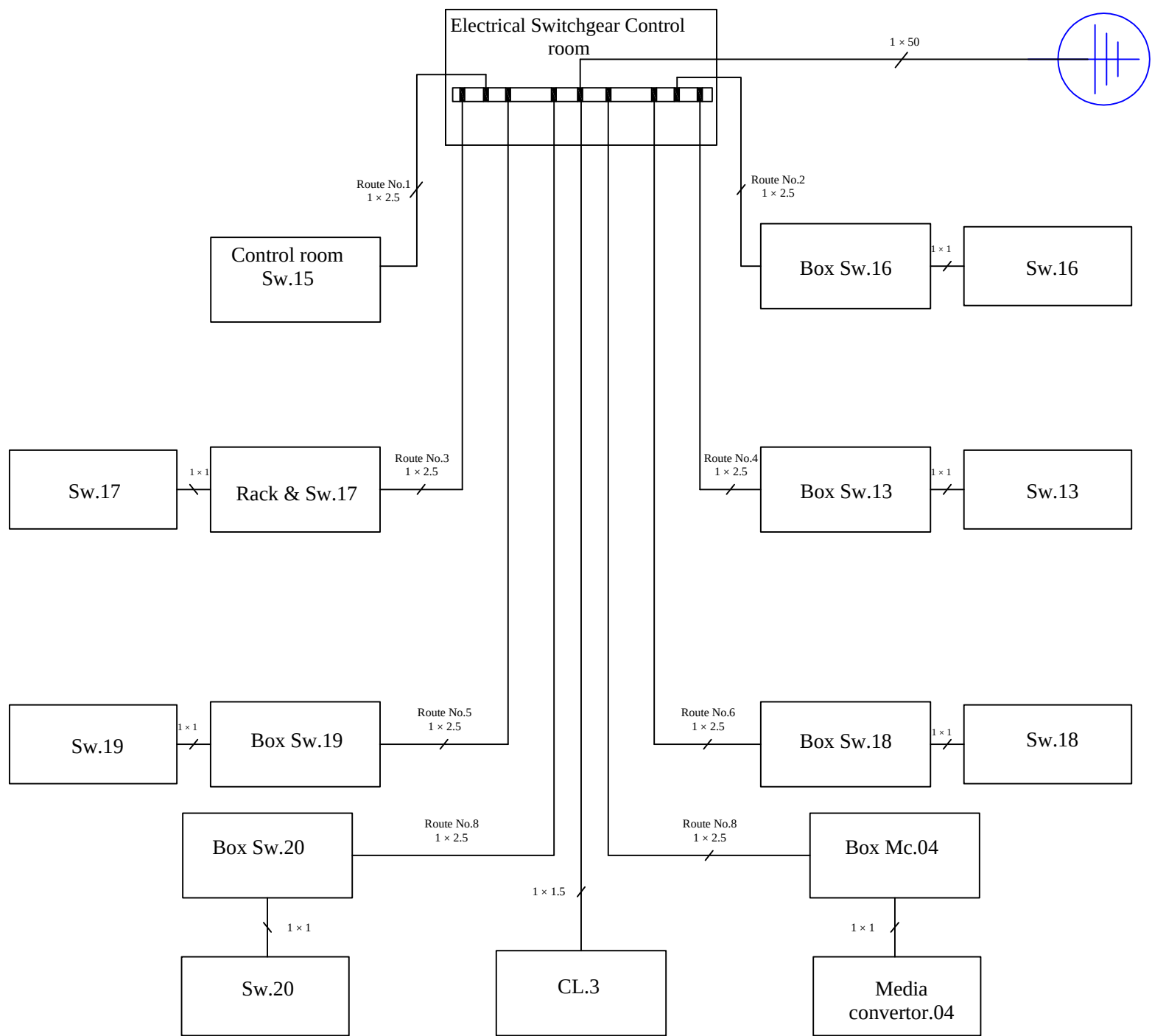
Project:		Jey Oil Refining Company		
Title:		Its map of the earth systems equipment		
Place:		Dose not		
Plan Number:		Jey Oil_bld_(A-Plane)_950301-00		
Employer:		Consultant:	Designer:	
				
Scale: None	Detail Designer ☐	Deneral Designer ☒	Page: 9 Of: 11	

Internal Visit			
Amir Jamali	Milad Hajati	Behzad Farahani	95/03/01
Producer	Producer	Seconder	Date



Project: Jey Oil Refining Company		
Title: Its map of the earth systems equipment		
Place: Dose not		
Plan Number: Jey Oil_bld_(B-Plane)_950301-00		
Employer: 	Consultant: 	Designer: 
Scale: None	Detail Designer ☐ General Designer ☒	Page:10 Of: 11

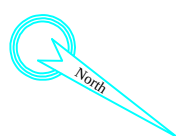
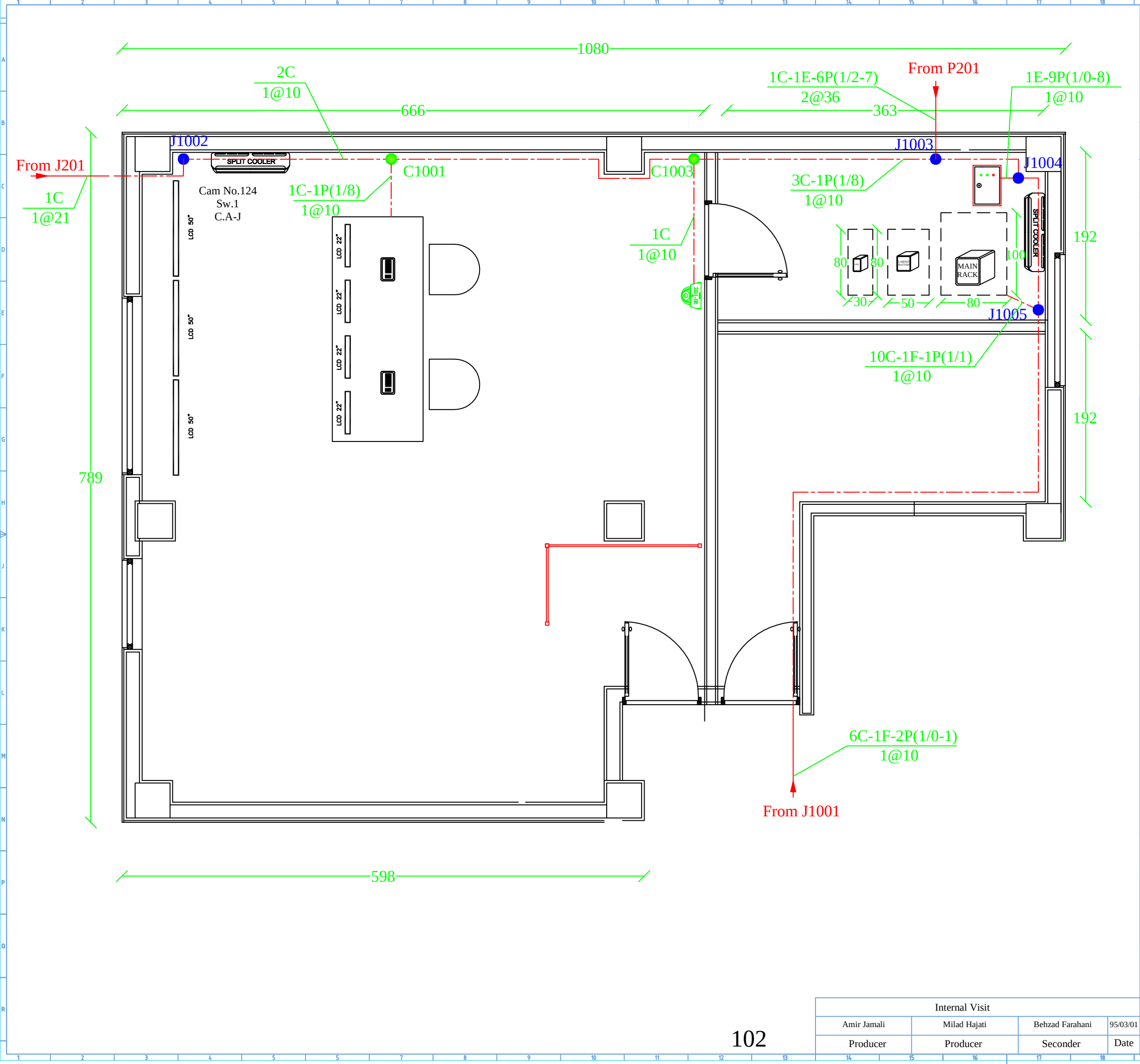
Internal Visit			
Amir Jamali	Milad Hajati	Behzad Farahani	95/03/01
Producer	Producer	Seconder	Date



Project:		Jey Oil Refining Company		
Title:		Its map of the earth systems equipment		
Place:		Dose not		
Plan Number:		Jey Oil_bld_(B-Plane)_950301-00		
Employer:		Consultant:		Designer:
				
Scale: None		Detail Designer	☐ Deneral Designer	✓ Page:11 Of: 11

Internal Visit			
Amir Jamali	Milad Hajati	Behzad Farahani	95/03/01
Producer	Producer	Seconder	Date

Season Fifth - Interior design and server room monitoring



Guidence Map

Symbol	Description	Number
	Camera Type (K)	1
	Control Room Rack	1
	Electrical Panel	1
	Split Cooler	2
	Monitor 22 inch	4
	Monitor 50 inch	6
	Keyboard	3
	UPS	1
	Battery Rack	1
	Partition	
	Duct	

Project:

Jey Oil Refining Company

Title:

Map Location Equipment

Place:

Building center

Plan Number:

Jey Oil_cam_f2(bulding center)_940301_00

Employer:

Consultant:

Designer:

Scale: 1:25

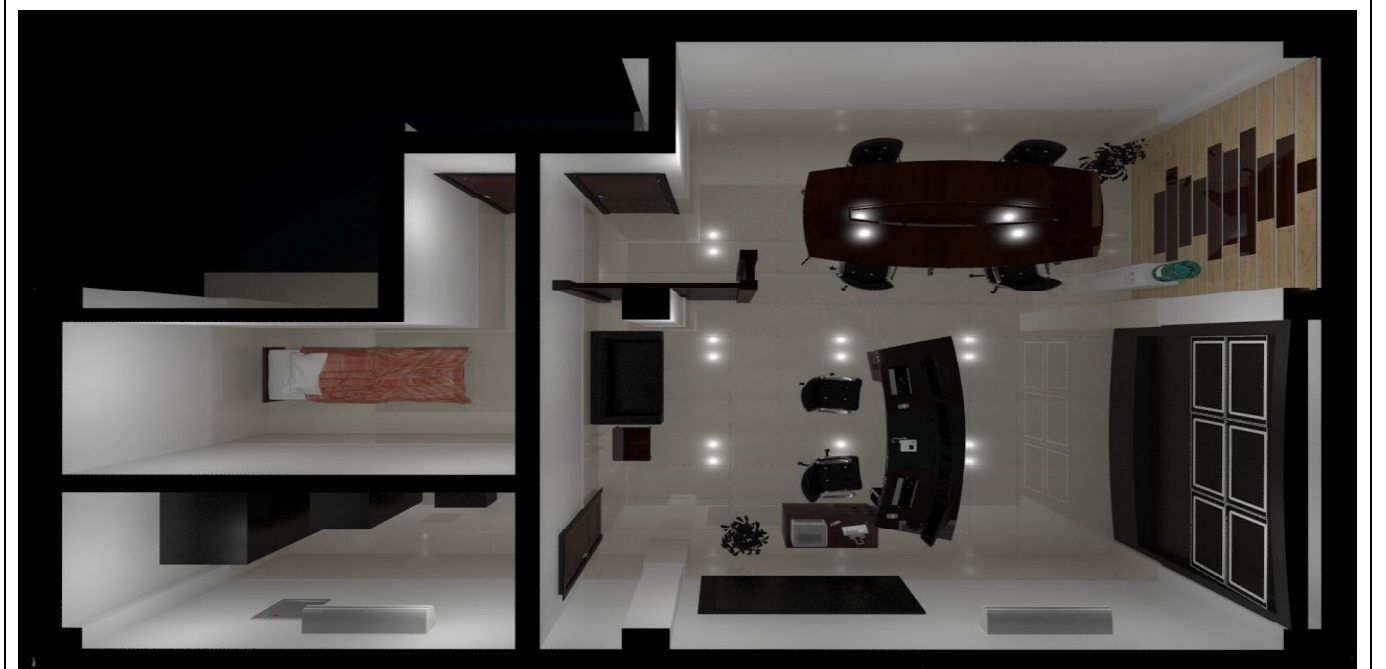
Detail Designer ☐

Deneral Designer ☒

Page: 1 Of: 1

Internal Visit			
Amir Jamali	Milad Hajati	Behzad Farahani	95/03/01
Producer	Producer	Seconder	Date

Control Room Design for Jey Oil Refining Company

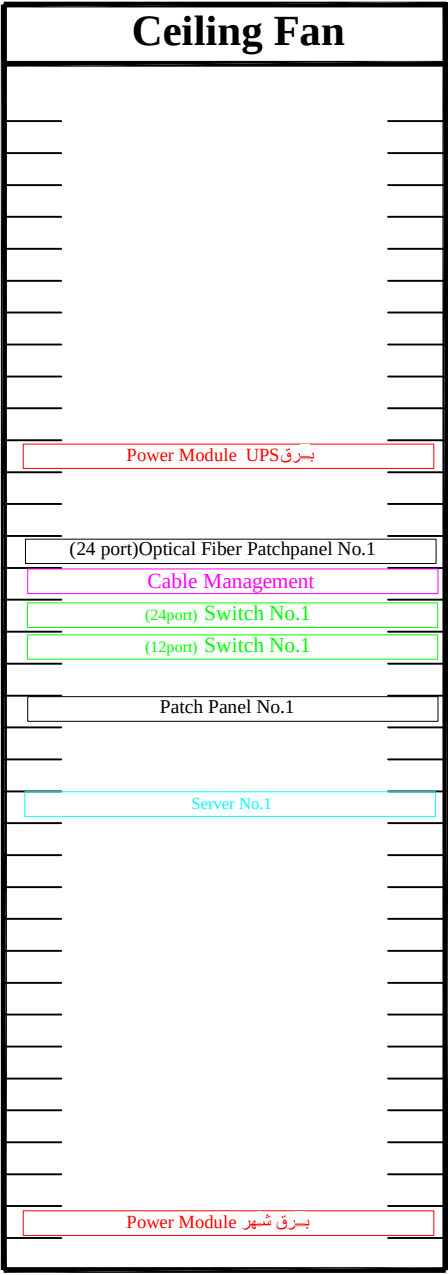


Control Room Design for Jey Oil Refining Company

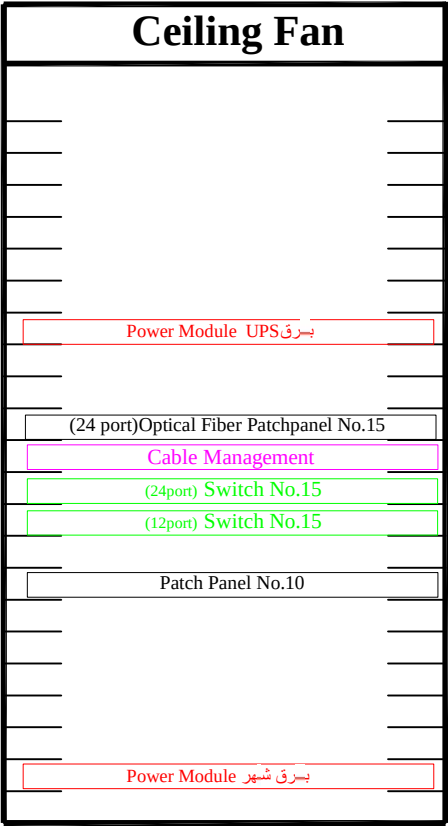


Season Sixth - Locating the equipment inside the racks, boxes and cabinets

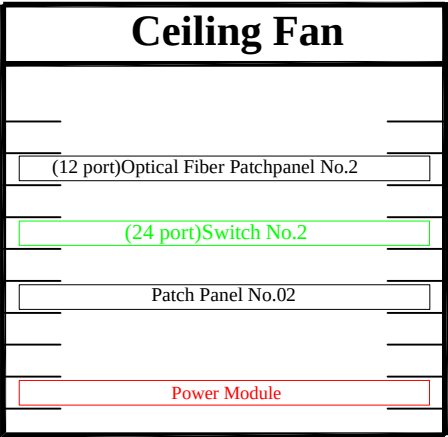
Locating The Equipment Inside The Rack



**Rack 36Unit
Building Center**



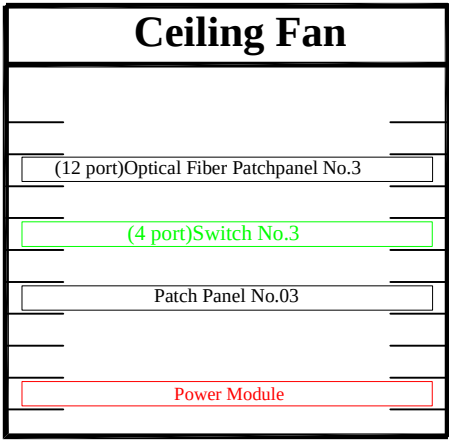
Rack 22Unit



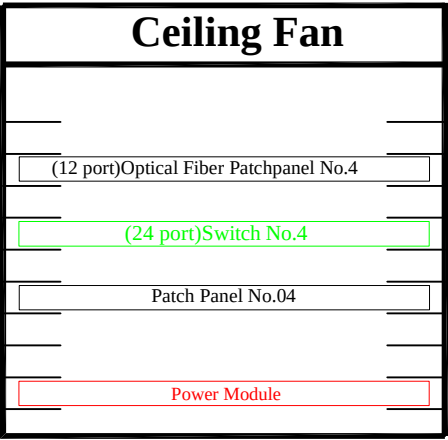
**Rack 9Unit
Entrance Building**

Internal Visit			
Amir Jamali	Milad Hajati	Behzad Farahani	95/03/01
Producer	Producer	Seconder	Date

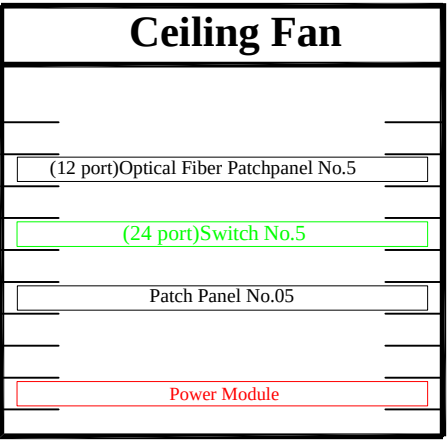
Project: Jey Oil Refining Company			
Title: Map Location Equipment			
Place: Drum Filling Area			
Plan Number: Jey Oil_rck_950124_00			
Employer: 		Consultant: 	Designer: 
Scale: 1:700	Detail Designer ☐	Deneral Designer ☒	Page:1 Of: 2



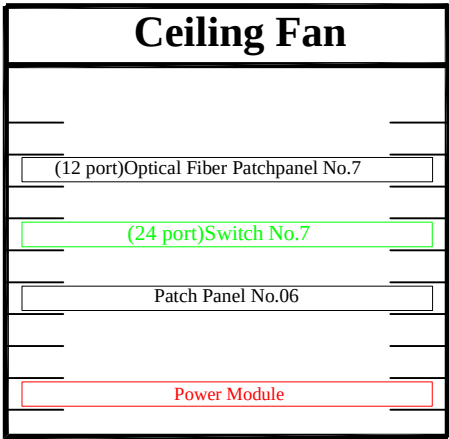
Rack 9Unit
Old Administrative Bulding



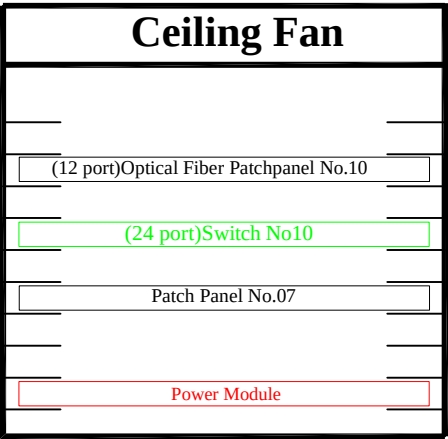
Rack 9Unit
Drum Manufacturing Build



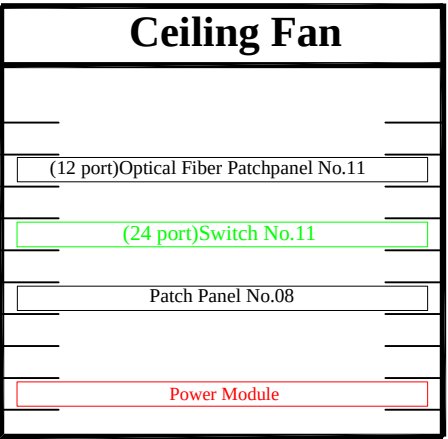
Rack 9Unit
Drum Warehouse Area



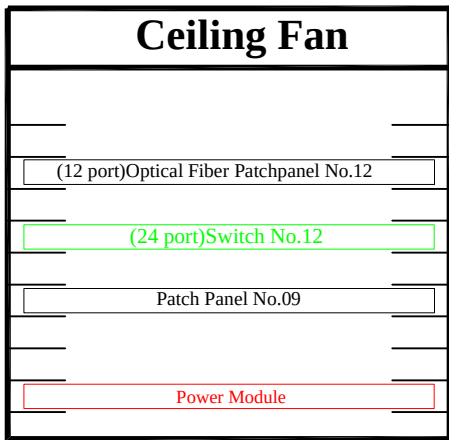
Rack 9Unit
Bitu-Bag Unit



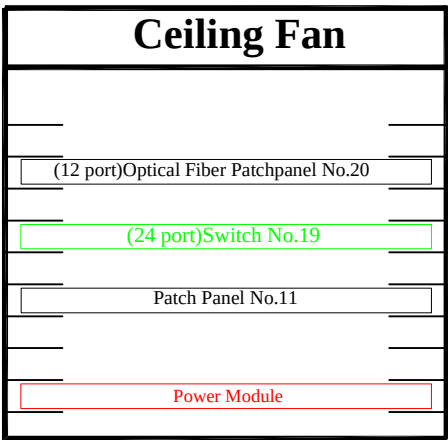
Rack 9Unit
Drum Filling Building



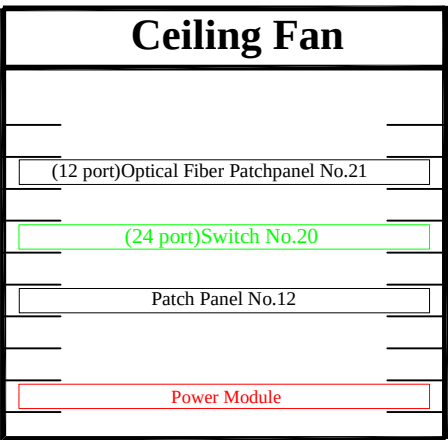
Rack 9Unit
Loading Station Area



Rack 9Unit
Weighbridge Unite



Rack 9Unit
Installation building



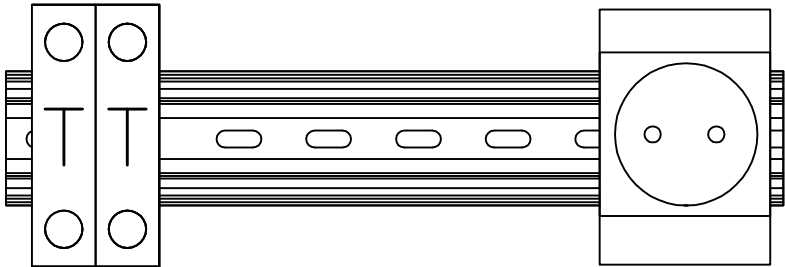
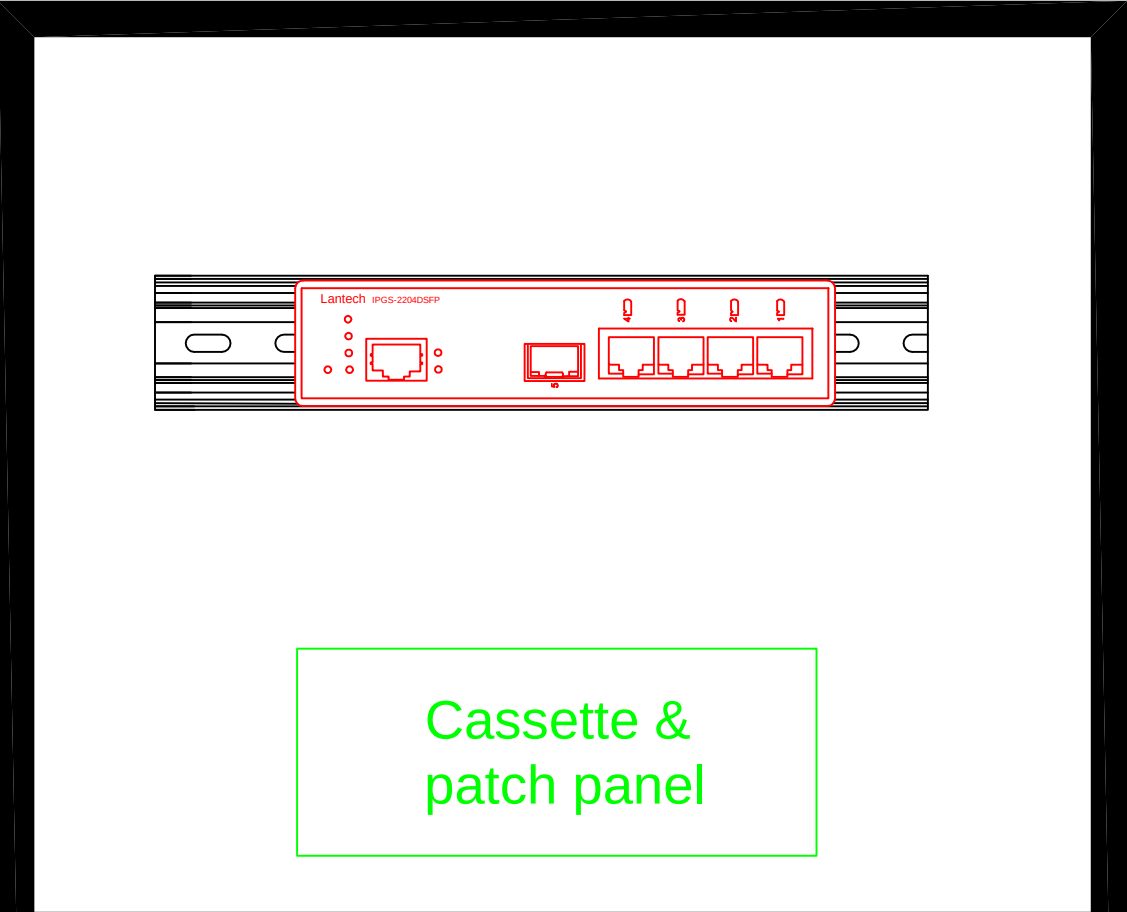
Rack 9Unit
Were House Production

Internal Visit			
Amir Jamali	Milad Hajati	Behzad Farahani	95/03/01
Producer	Producer	Seconder	Date

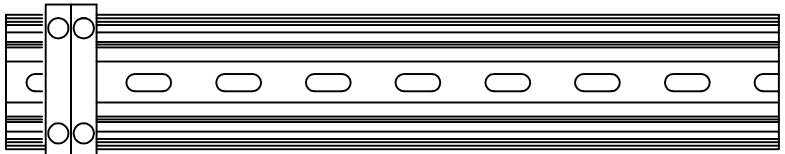
Project: Jey Oil Refining Company		
Title: Map Location Equipment		
Place: Drum Filling Area		
Plan Number: Jey Oil_rck_950124_00		
Employer: 	Consultant: 	Designer: 
Scale: 1:700	Detail Designer ☐ Deneral Designer ☒	Page: 2 Of: 2

Locating equipment in boxes

3000



F101 F102



X101
X102

5000

Map Guide

symbol	Description
	2-pole Miniature Fuse
	Miniature Fuse
	Terminal
	Power Socket

Project: Jey oil Refining Company

Title: Box of Switch

Place: Mast

PlanNumber: Jey Oil_bs_950301_00

Employer:



Consultant:



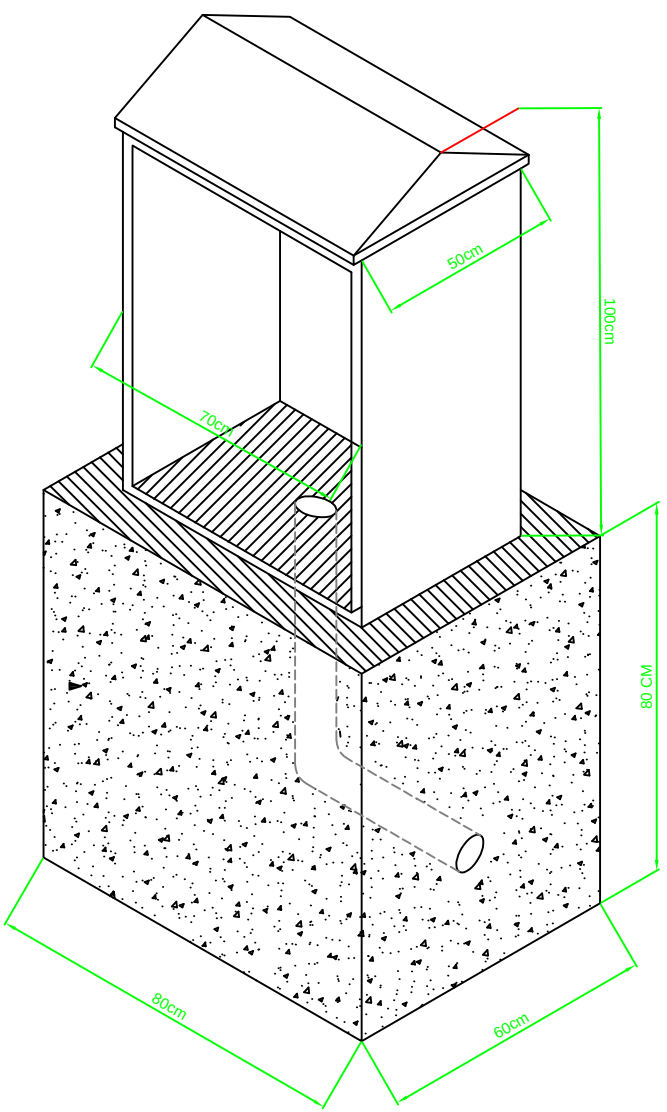
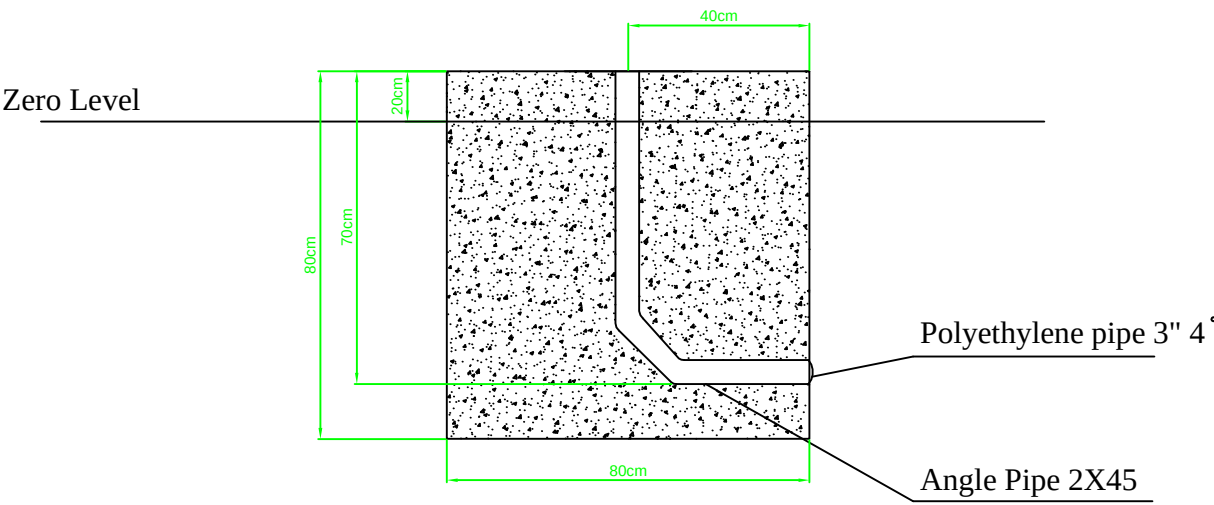
Designer:



InternalVisit			
AmirJamali	MiladHajati	BehzadFarahani	95/03/01
Producer	Producer	Seconder	Date

Scale: Non DetailDesigner ☐ DeneralDesigner ☒ Page:1 Of: 1

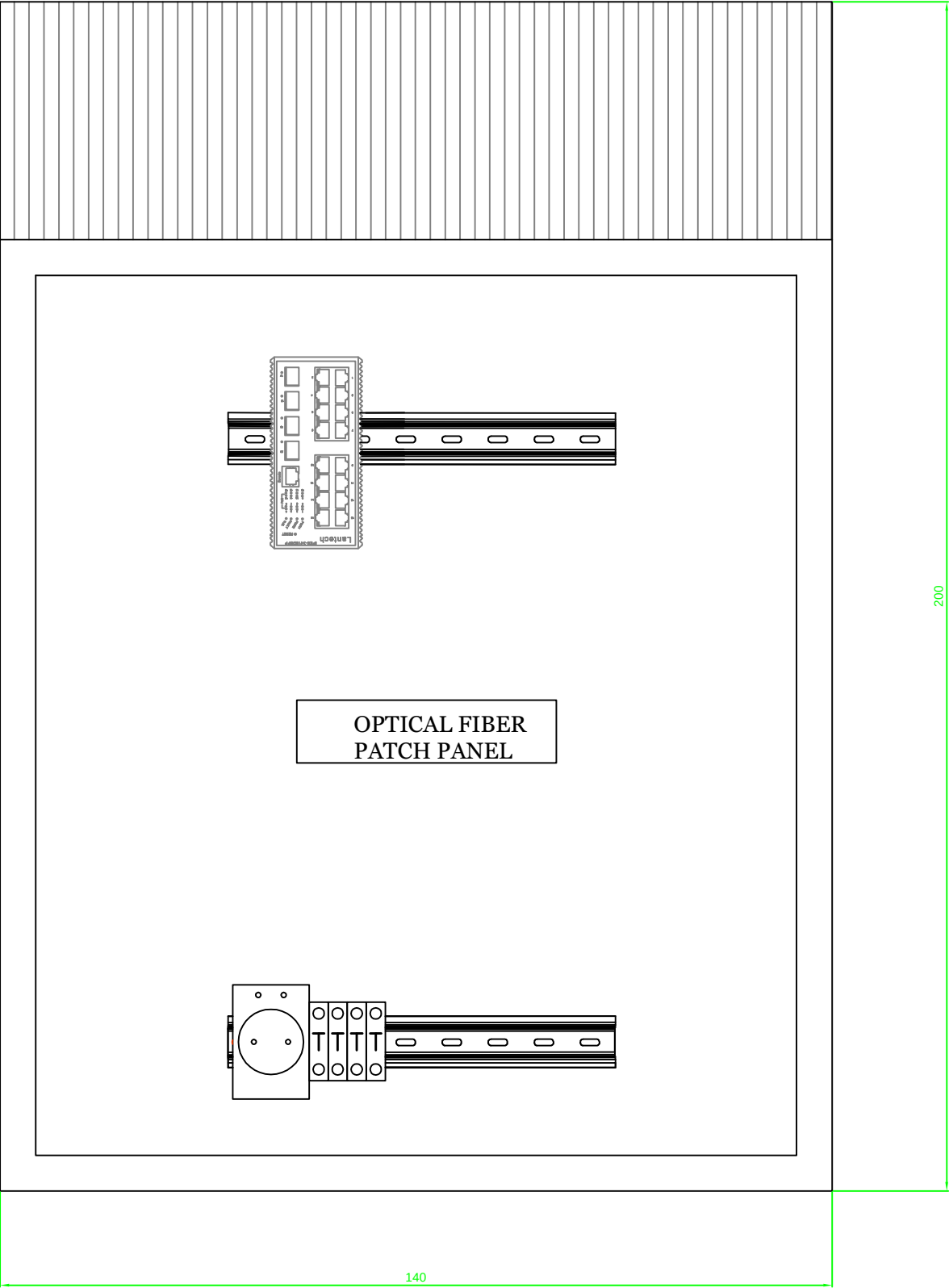
Locating equipment in cabinets



Note
Boxes must be of a kind IP65 Procurement and Painting The Powder is Electrostatic

Project: Jey Oil Refining Company	
Title: Map Detailing the Construction of Cabinets	
Place: Where the Middle Layer Switches	
Plan Number: Jey Oil_cb_940301_00	
Employer:  Jey Oil Refining Company	Consultant:  Raya Engineering Company
Designer:  Artiman Design	
Scale: Non	Detail Designer ☐ General Designer ☒
Page: 1 Of: 2	

Internal Visit			
Amir Jamali	Milad Hajati	Behzad Farahani	95/03/01
Producer	Producer	Seconder	Date



Internal Visit			
Amir Jamali	Milad Hajati	Behzad Farahani	95/03/01
Producer	Producer	Seconder	Date

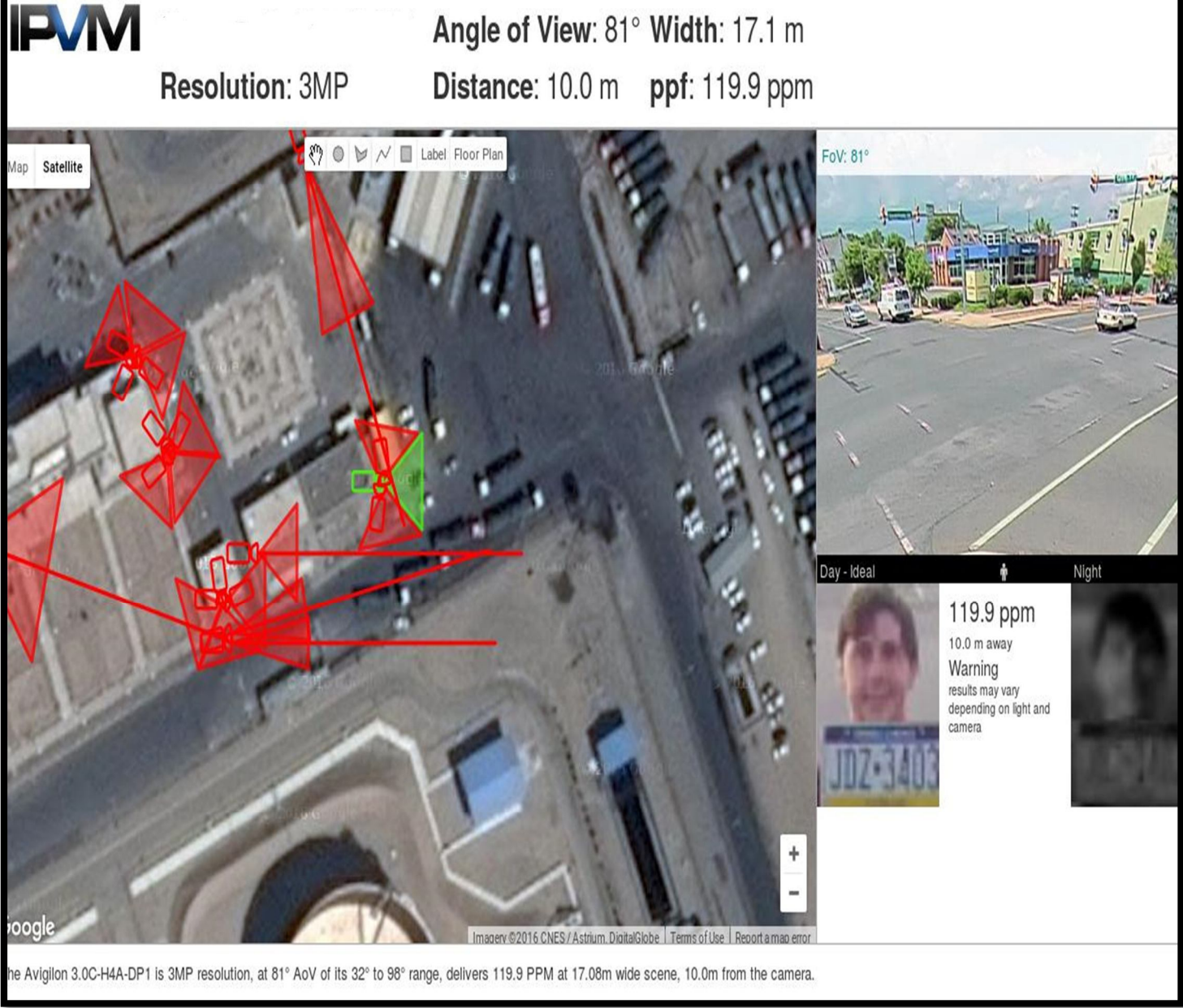
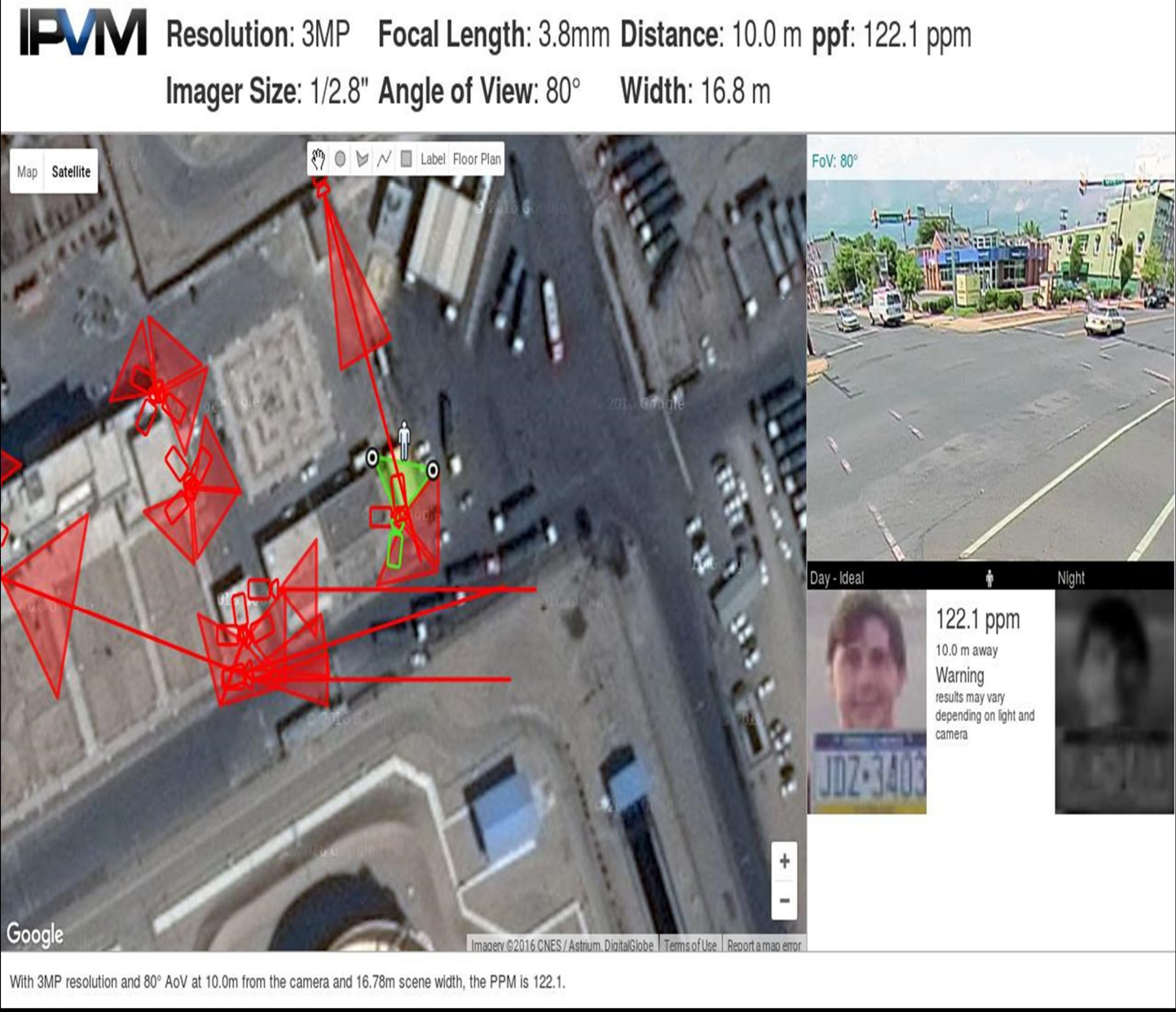
Project: Jey Oil Refining Company			
Title: Map Detailing the Construction of Cabinets			
Place: Where the Middle Layer Switches			
Plan Number: Jey Oil_cb_940301_00			
Employer:	Consultant:	Designer:	
			
Scale: Non	Detail Designer ☐	General Designer ☒	Page: 2 Of: 2

Season Seventh - Pixel/Per Meter

IPVM Camera Calculation | May 10, 2016

Overview





cam no 101
Model: Type F

Resolution: 3MP | Imager Size: 1/2.8" | Focal Length: 3.8
AoV: 80 | Distance: 10.0 | HFoV: 16.8 | PPF: 122.1

cam no 101
Model: Type F

Resolution: 3MP | Imager Size: 1/2.8" | Focal Length: 3.8
AoV: 80 | Distance: 10.0 | HFoV: 16.8 | PPF: 122.1



cam no 101
Model: Type F

Resolution: 3MP | Imager Size: 1/2.8" | Focal Length: 3.8
AoV: 80 | Distance: 10.0 | HFoV: 16.8 | PPF: 122.1

cam no102
Model: Type D

Resolution: 1080P | Imager Size: 1/2.8" | Focal Length: 3.8
AoV: 81 | Distance: 10.0 | HFoV: 17.1 | PPF: 112.4



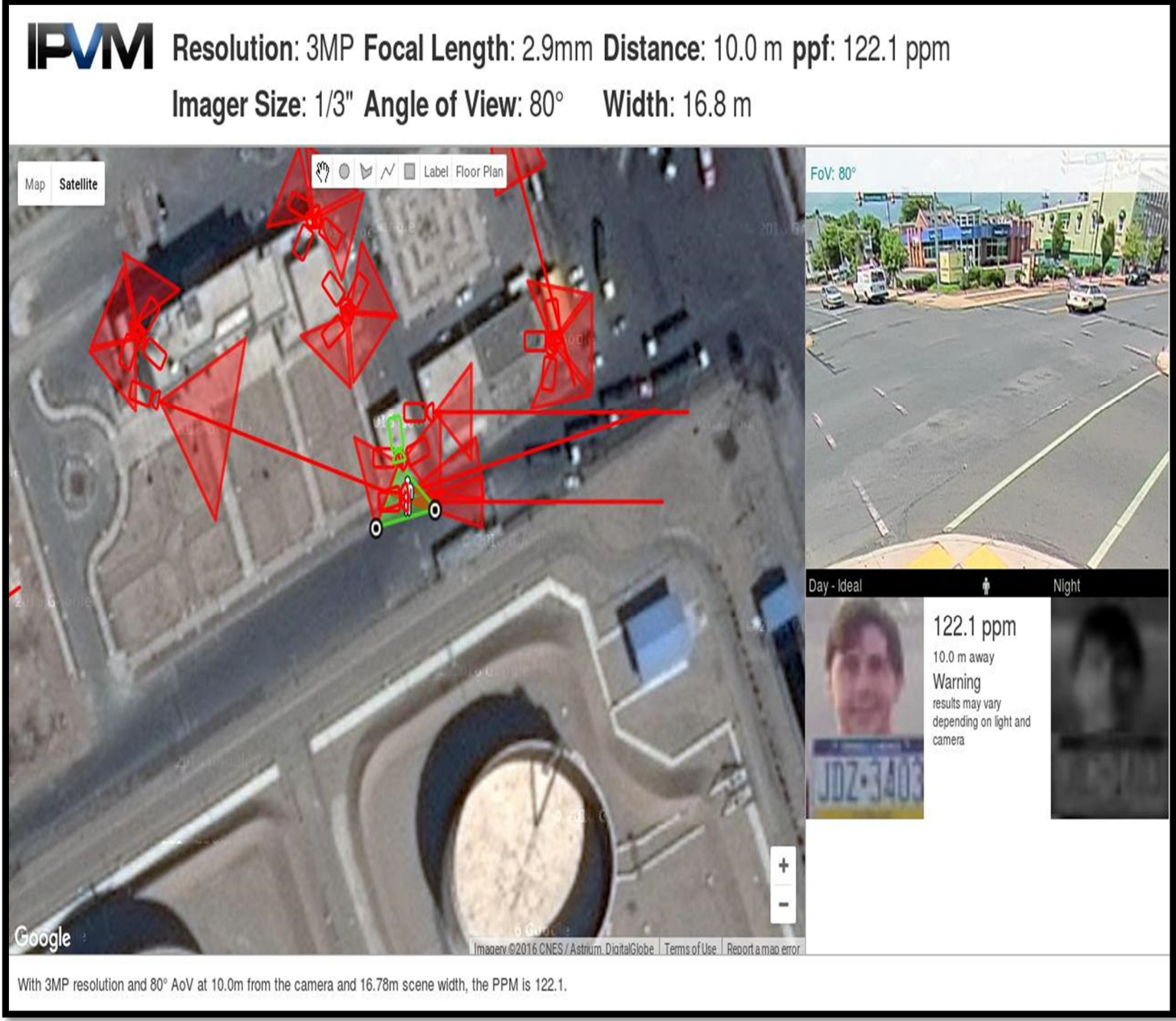
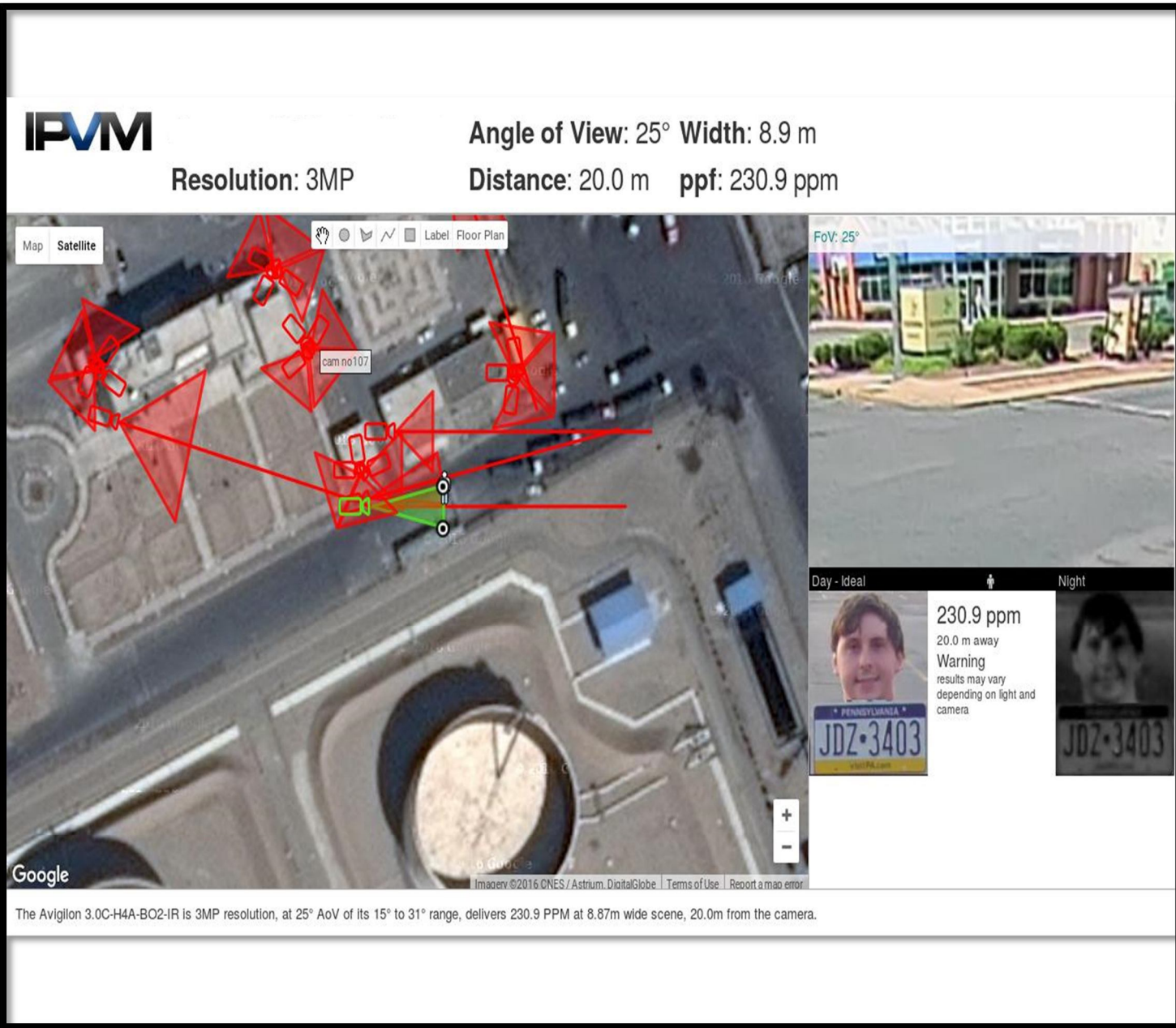
cam no 103
Model: Type B

Resolution: 3MP | Imager Size: 1/2.8" | Focal Length: 13.5
AoV: 27 | Distance: 30.0 | HFoV: 14.4 | PPF: 142.2

cam no 104

Model: Type C

Resolution: 3MP | Imager Size: 1/2.8" | Focal Length: 14.6
AoV: 25 | Distance: 20.0 | HFoV: 8.9 | PPF: 230.9



cam no 105 Model: Type C Resolution: 3MP Imager Size: 1/2.8" Focal Length: 11.6 AoV: 31 Distance: 20.0 HFoV: 11.1 PPF: 184.	cam no 106 Model: Type F Resolution: 3MP Imager Size: 1/3" Focal Length: 2.8 AoV: 81 Distance: 10.0 HFoV: 17.1 PPF: 119.8
---	---



cam no 106

Model: Type F

Resolution: 3MP | Imager Size: 1/3" | Focal Length: 2.9

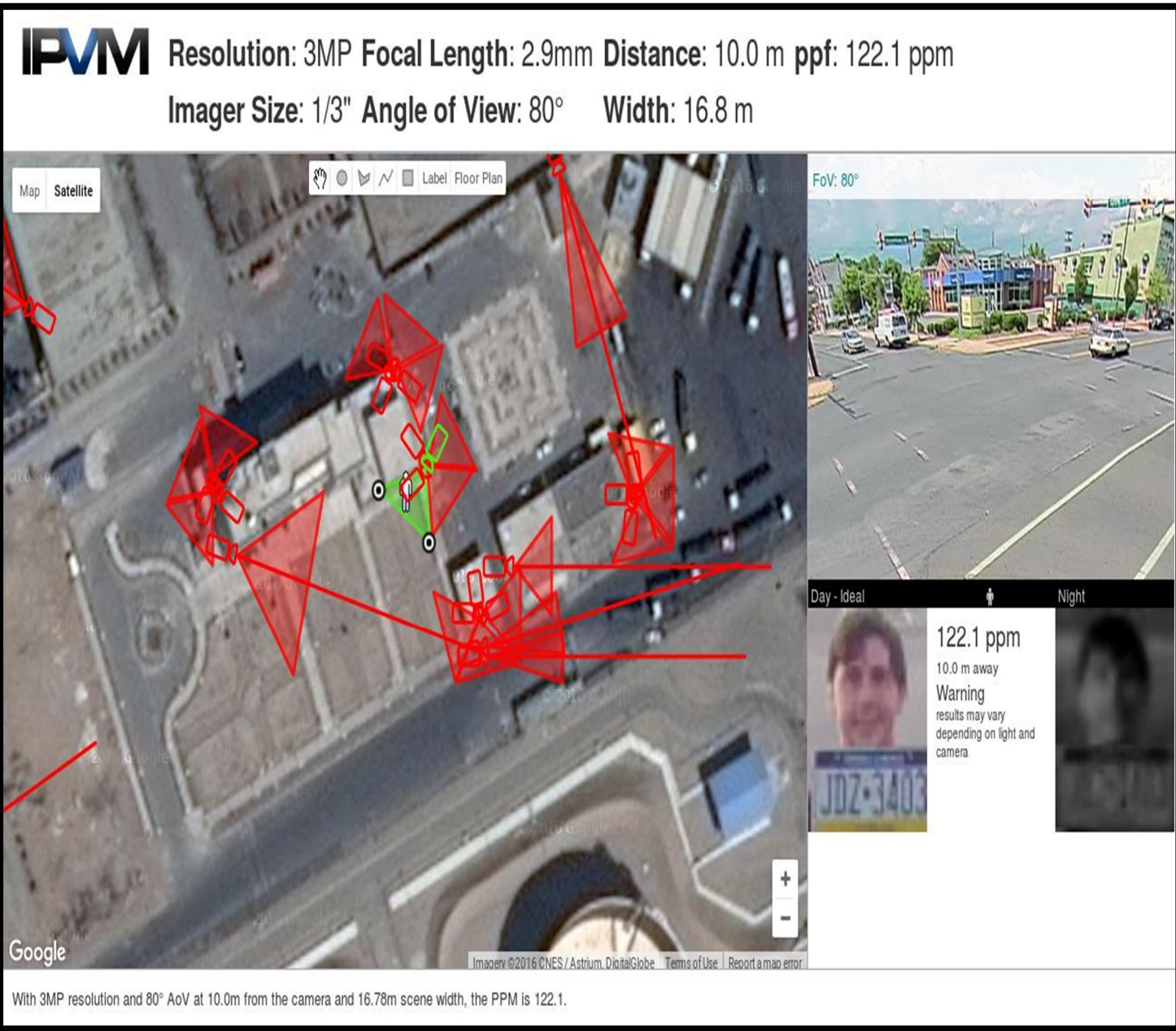
AoV: 80 | Distance: 10.0 | HFoV: 16.8 | PPF: 121.9

cam no 106

Model: Type F

Resolution: 3MP | Imager Size: 1/3" | Focal Length: 2.8

AoV: 81 | Distance: 10.0 | HFoV: 17.1 | PPF: 119.8



cam no107

Model: Type F

Resolution: 3MP | Imager Size: 1/3" | Focal Length: 2.9

AoV: 80 | Distance: 10.0 | HFoV: 16.8 | PPF: 121.9

cam no107

Model: Type F

Resolution: 3MP | Imager Size: 1/3" | Focal Length: 2.9

AoV: 80 | Distance: 10.0 | HFoV: 16.8 | PPF: 121.9



cam no107

Model: Type F

Resolution: 3MP | Imager Size: 1/3" | Focal Length: 2.9

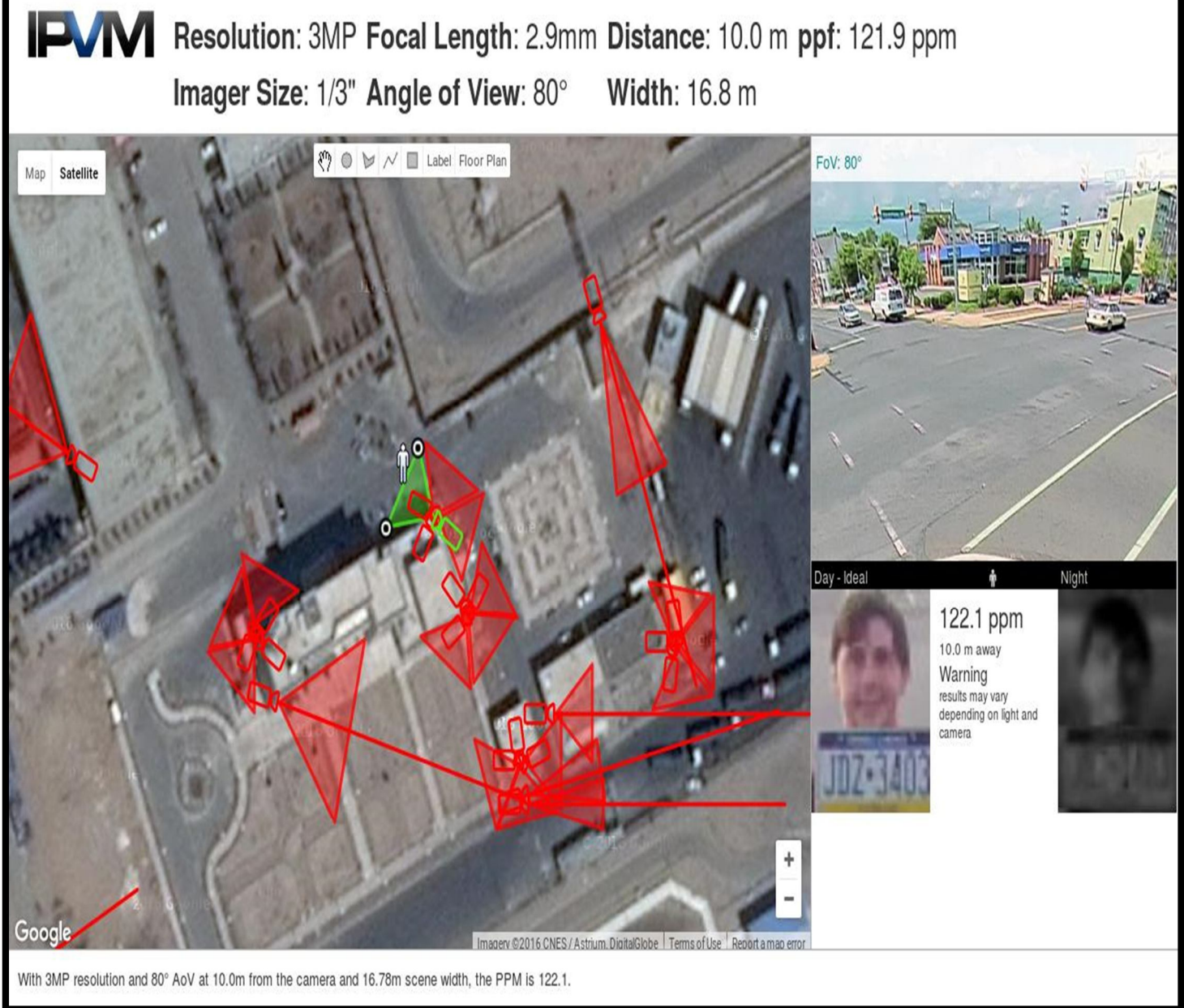
AoV: 80 | Distance: 10.0 | HFoV: 16.8 | PPF: 121.9

cam no108

Model: Type F

Resolution: 3MP | Imager Size: 1/3" | Focal Length: 2.9

AoV: 80 | Distance: 10.0 | HFoV: 16.8 | PPF: 121.9



cam no 108

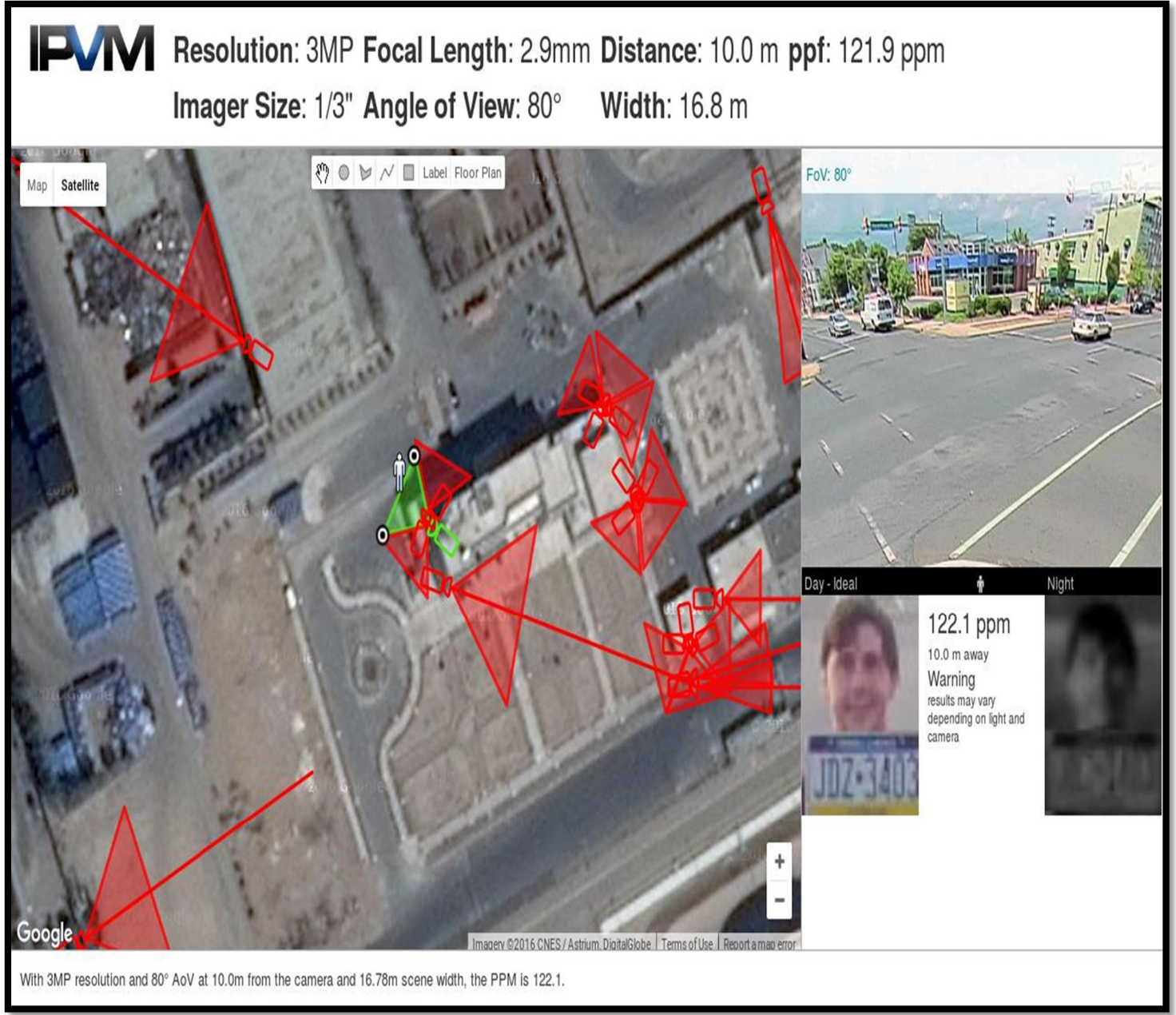
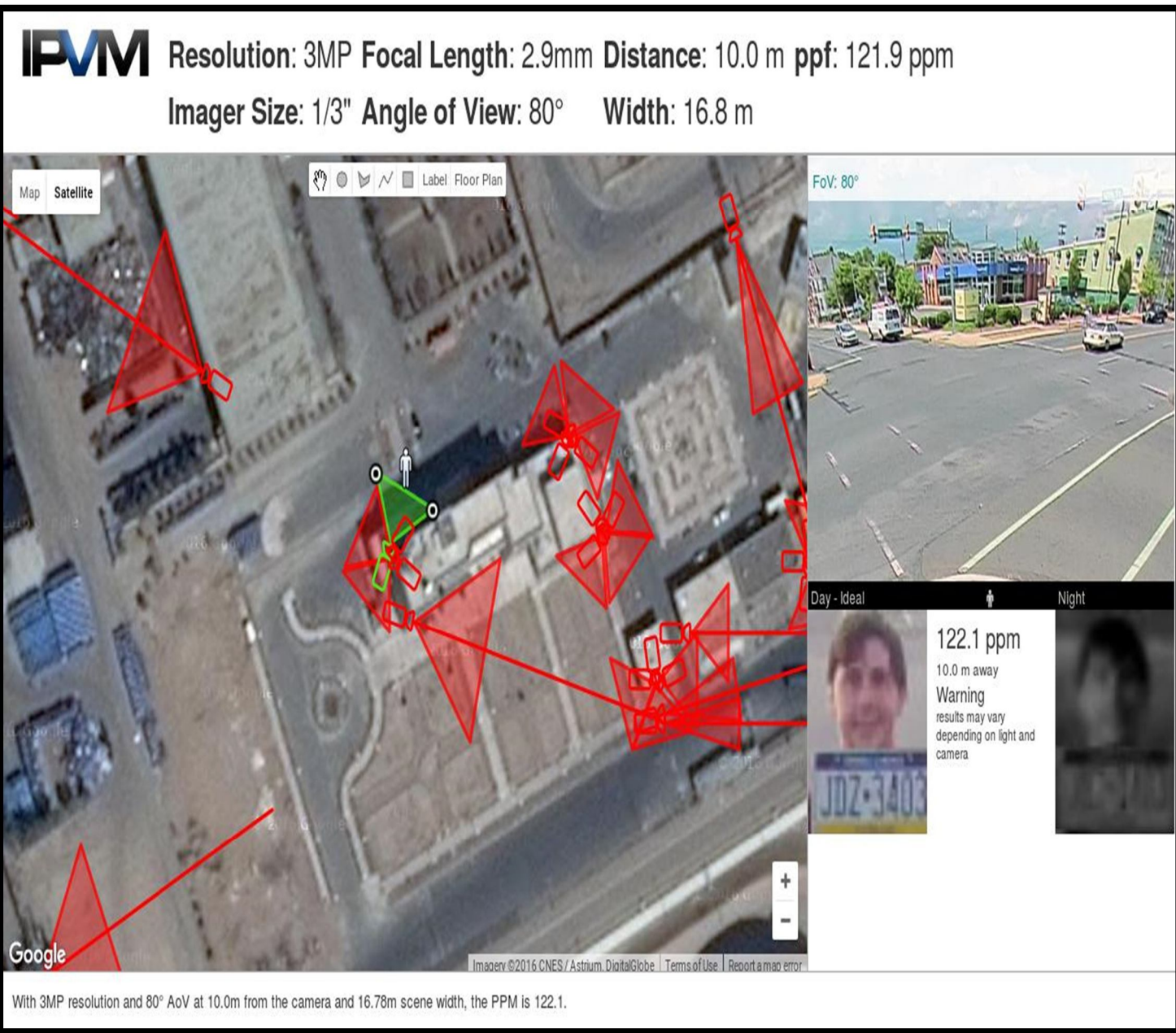
Model: Type F

Resolution: 3MP | Imager Size: 1/3" | Focal Length: 2.9
AoV: 80 | Distance: 10.0 | HFoV: 16.8 | PPF: 121.9

cam no 108

Model: Type F

Resolution: 3MP | Imager Size: 1/3" | Focal Length: 2.9
AoV: 80 | Distance: 10.0 | HFoV: 16.8 | PPF: 121.9



cam no109

Model: Type F

Resolution: 3MP | Imager Size: 1/3" | Focal Length: 2.9

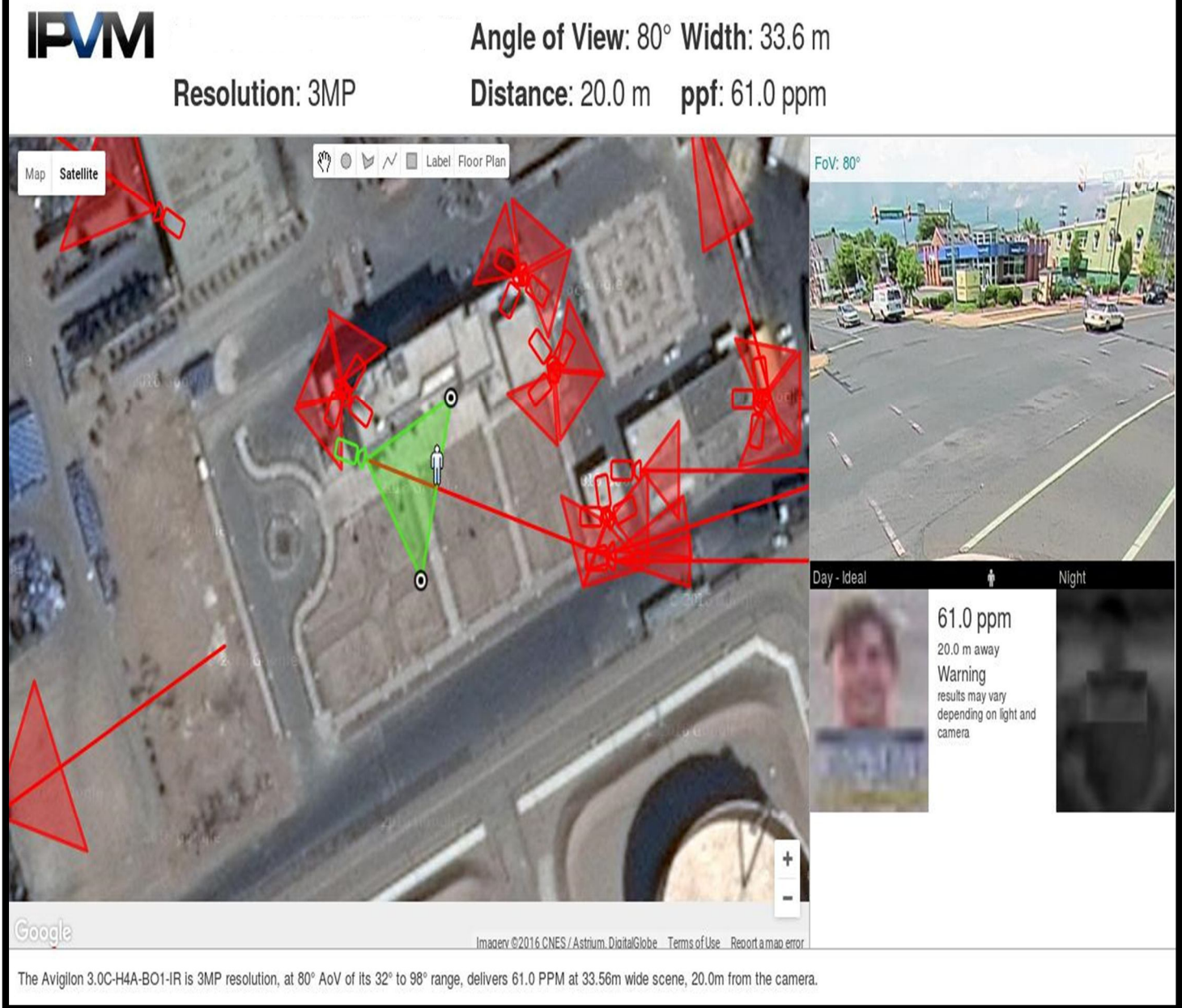
AoV: 80 | Distance: 10.0 | HFoV: 16.8 | PPF: 121.9

cam no109

Model: Type F

Resolution: 3MP | Imager Size: 1/3" | Focal Length: 2.9

AoV: 80 | Distance: 10.0 | HFoV: 16.8 | PPF: 121.9



cam no109

Model: Type F

Resolution: 3MP | Imager Size: 1/3" | Focal Length: 2.9
AoV: 80 | Distance: 10.0 | HFoV: 16.8 | PPF: 121.9

cam no110

Model: Type D

Resolution: 3MP | Imager Size: 1/2.8" | Focal Length: 3.8



cam no111

Model: Type A

Resolution: 5MP | Imager Size: 1/1.8" | Focal Length: 4.8

AoV: 73.59 | Distance: 20.0 | HFoV: 29.9 | PPF: 86.6

cam no112

Model: Type D

Resolution: 1080P | Imager Size: 1/2.8" | Focal Length: 3.6

AoV: 83.80 | Distance: 20.0 | HFoV: 35.9 | PPF: 53.5



cam no113

Model: Type F

Resolution: 3MP | Imager Size: 1/3" | Focal Length: 2.9

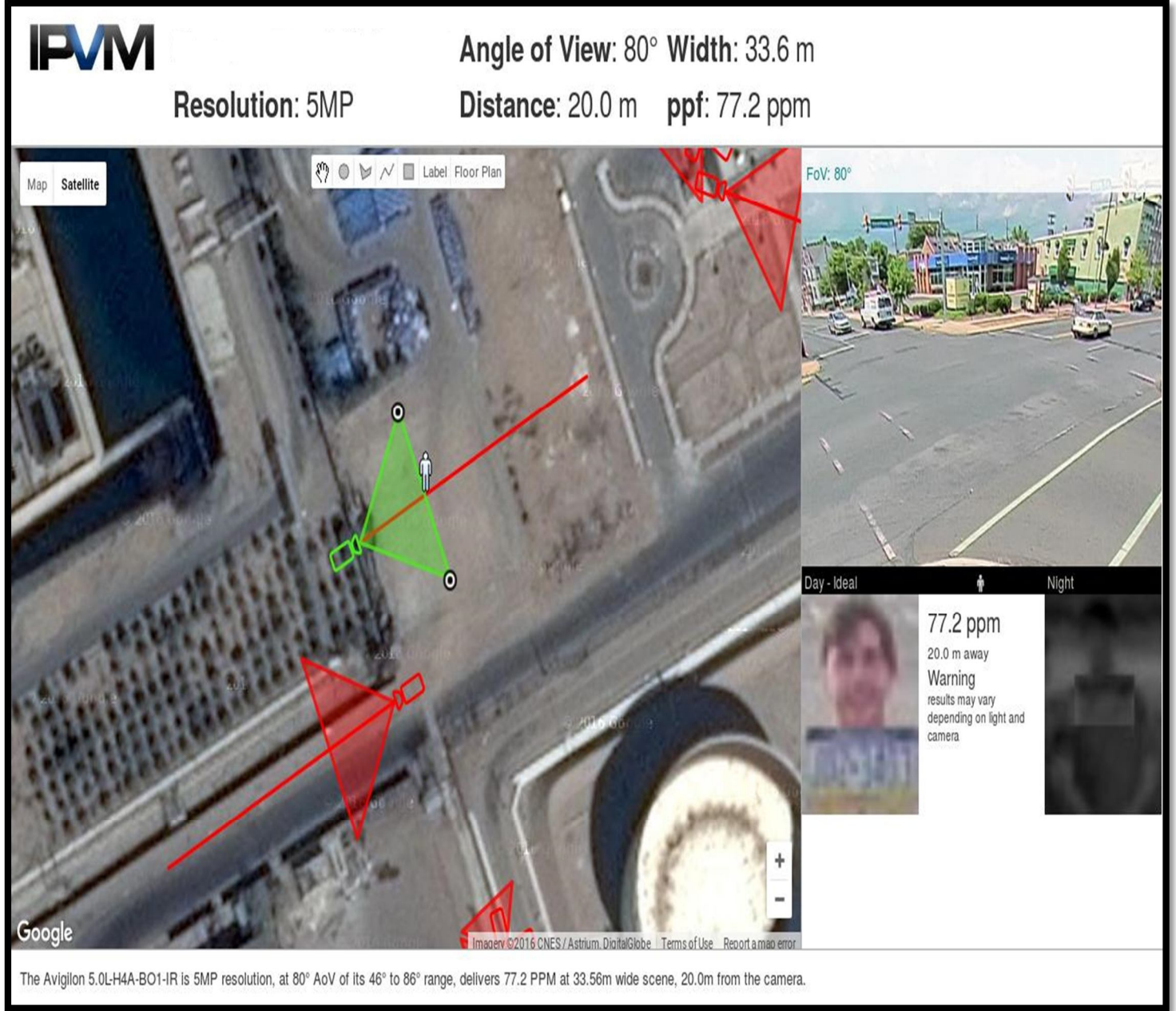
AoV: 80 | Distance: 10.0 | HFoV: 16.8 | PPF: 122.1

cam no113

Model: Type F

Resolution: 3MP | Imager Size: 1/3" | Focal Length: 2.9

AoV: 80 | Distance: 10.0 | HFoV: 16.8 | PPF: 121.9



cam no114

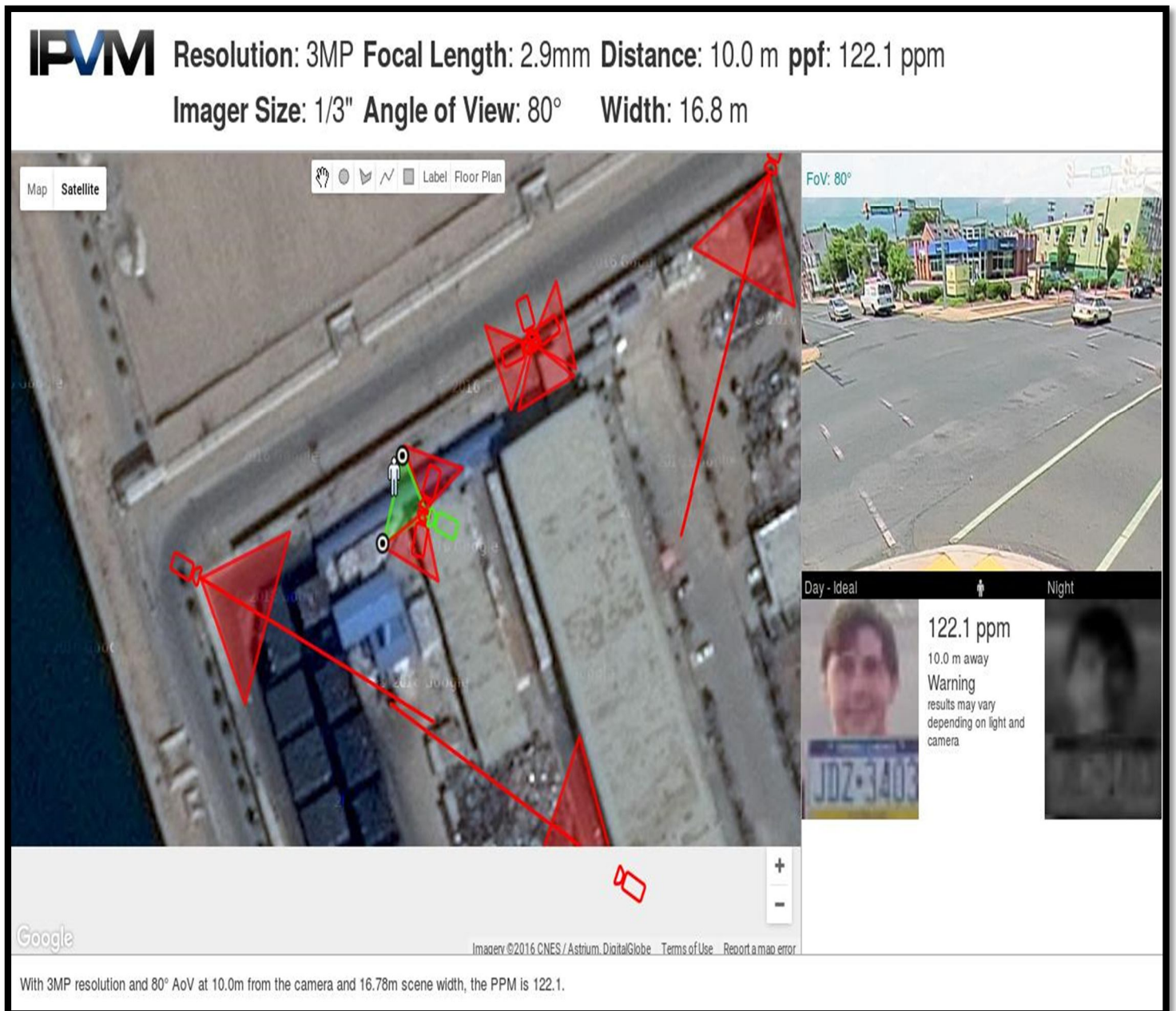
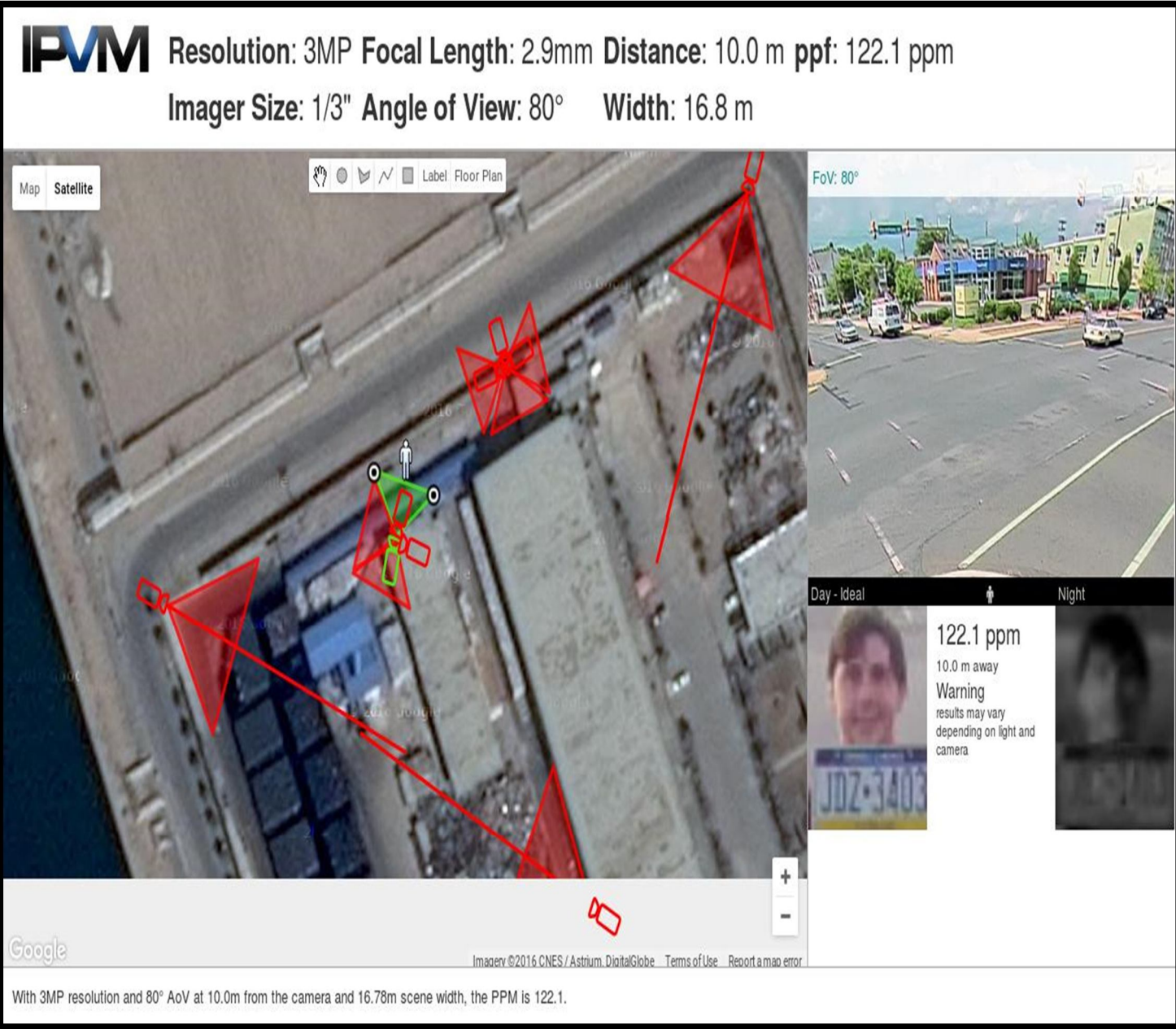
Model: Type A

Resolution: 5MP | Imager Size: 1/1.8" | Focal Length: 4.3
AoV: 80 | Distance: 20.0 | HFoV: 33.6 | PPF: 77.2

cam no115

Model: Type F

Resolution: 5MP | Imager Size: 1/1.8" | Focal Length: 4.3
AoV: 80 | Distance: 20.0 | HFoV: 33.6 | PPF: 77.2



cam no115

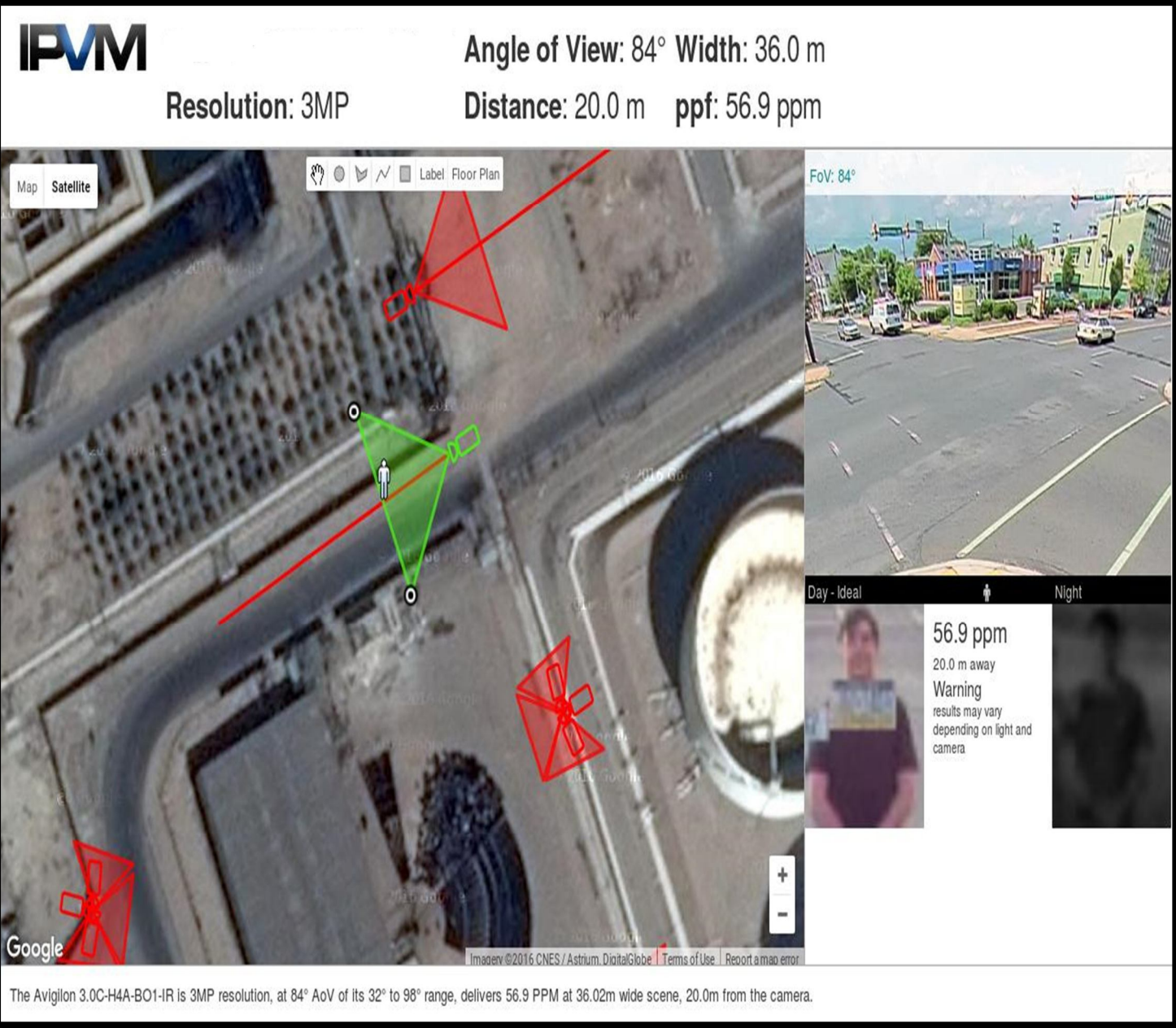
Model: Type F

Resolution: 3MP | Imager Size: 1/3" | Focal Length: 2.9
AoV: 80 | Distance: 10.0 | HFoV: 16.8 | PPF: 121.9

cam no115

Model: Type F

Resolution: 3MP | Imager Size: 1/3" | Focal Length: 2.9
AoV: 80 | Distance: 10.0 | HFoV: 16.8 | PPF: 121.9



cam no201

Model: Type B

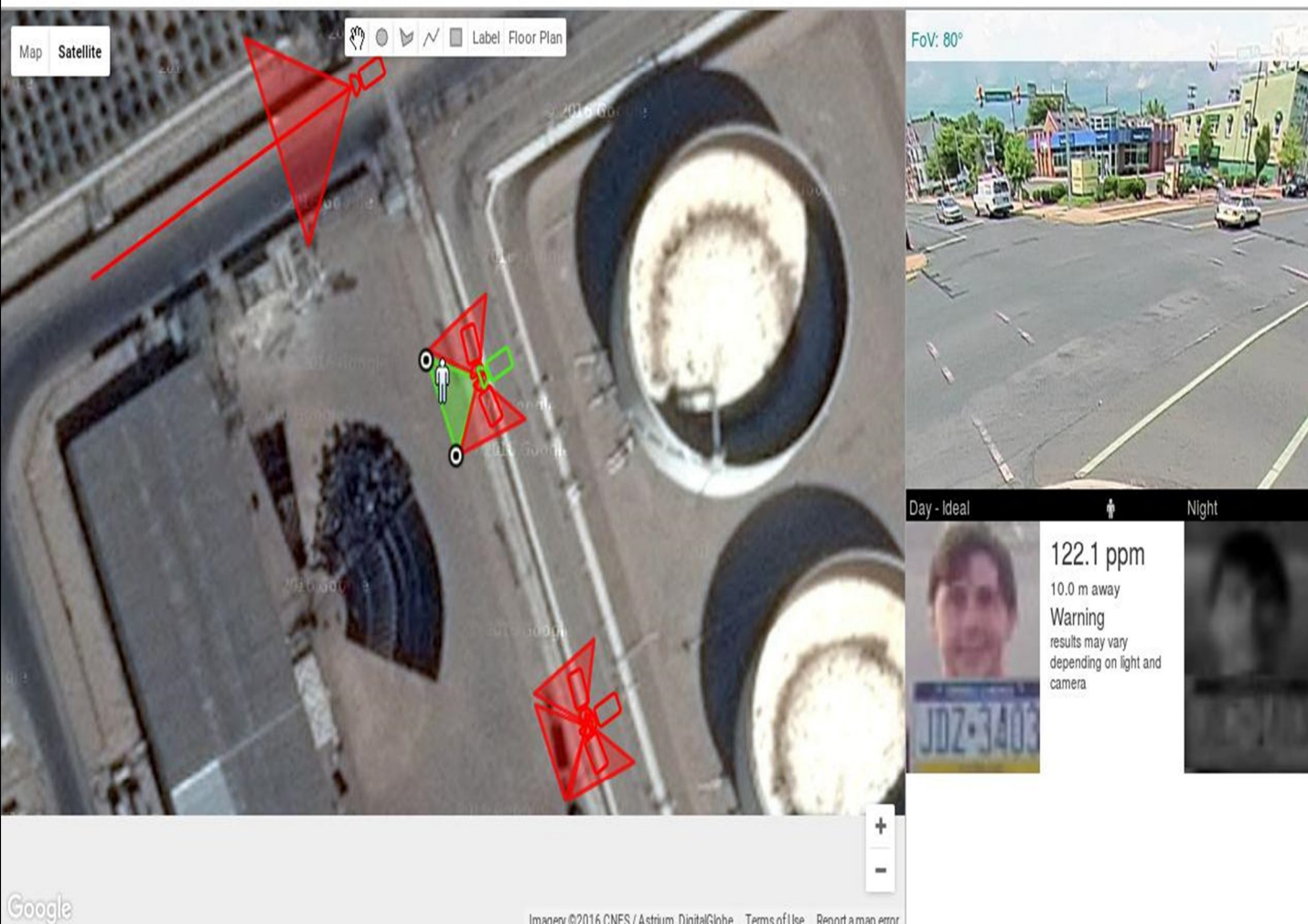
Resolution: 3MP | Imager Size: 1/2.8" | Focal Length: 3.6
AoV: 84 | Distance: 20.0 | HFoV: 36.0 | PPF: 56.9

cam no202

Model: Type F

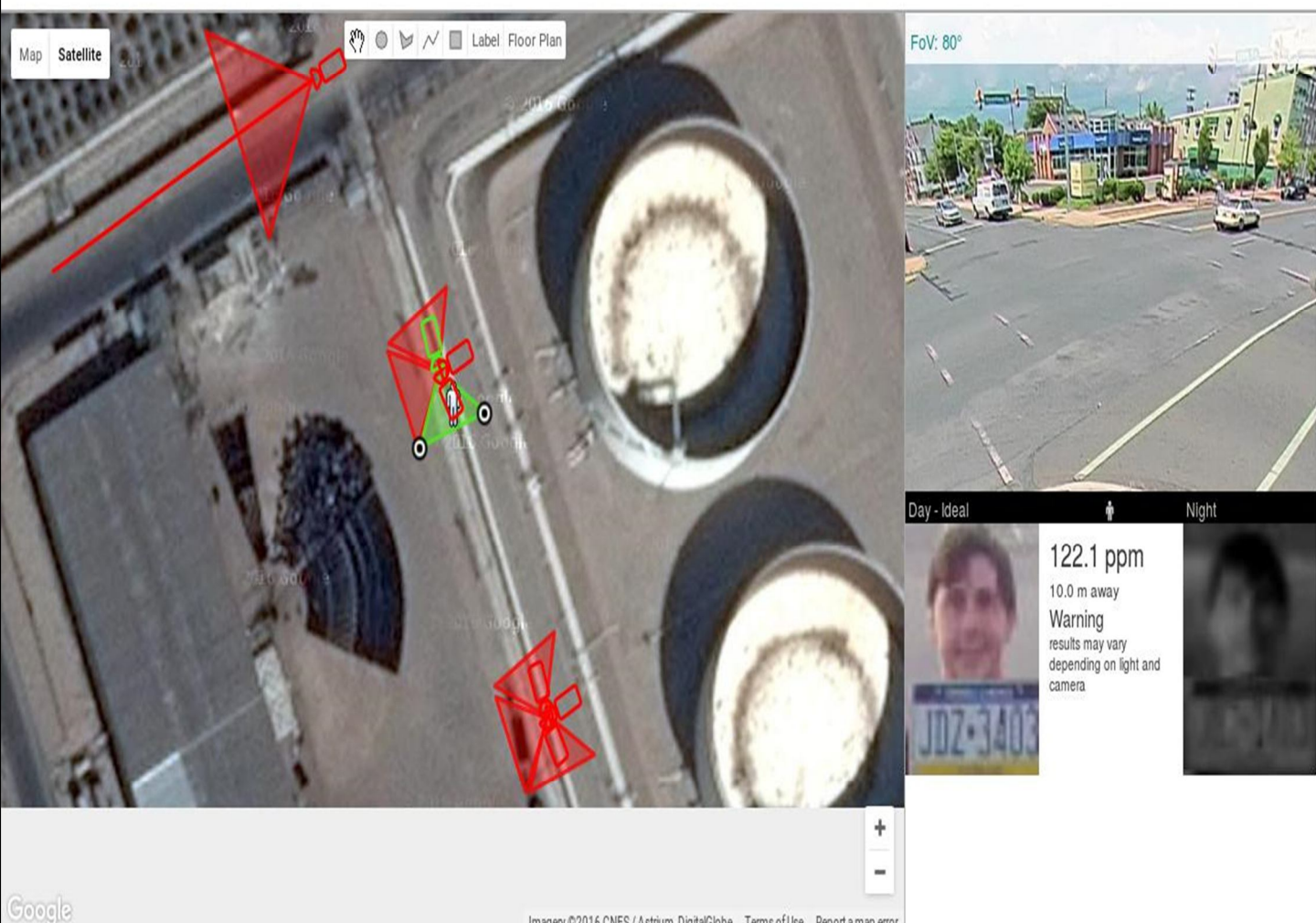
Resolution: 3MP | Imager Size: 1/3" | Focal Length: 2.9
AoV: 80 | Distance: 10.0 | HFoV: 16.8 | PPF: 122.1

IPVM Resolution: 3MP Focal Length: 2.9mm Distance: 10.0 m ppf: 121.9 ppm
Imager Size: 1/3" Angle of View: 80° Width: 16.8 m



With 3MP resolution and 80° AoV at 10.0m from the camera and 16.78m scene width, the PPM is 122.1.

IPVM Resolution: 3MP Focal Length: 2.9mm Distance: 10.0 m ppf: 122.1 ppm
Imager Size: 1/3" Angle of View: 80° Width: 16.8 m



With 3MP resolution and 80° AoV at 10.0m from the camera and 16.78m scene width, the PPM is 122.1.

cam no202

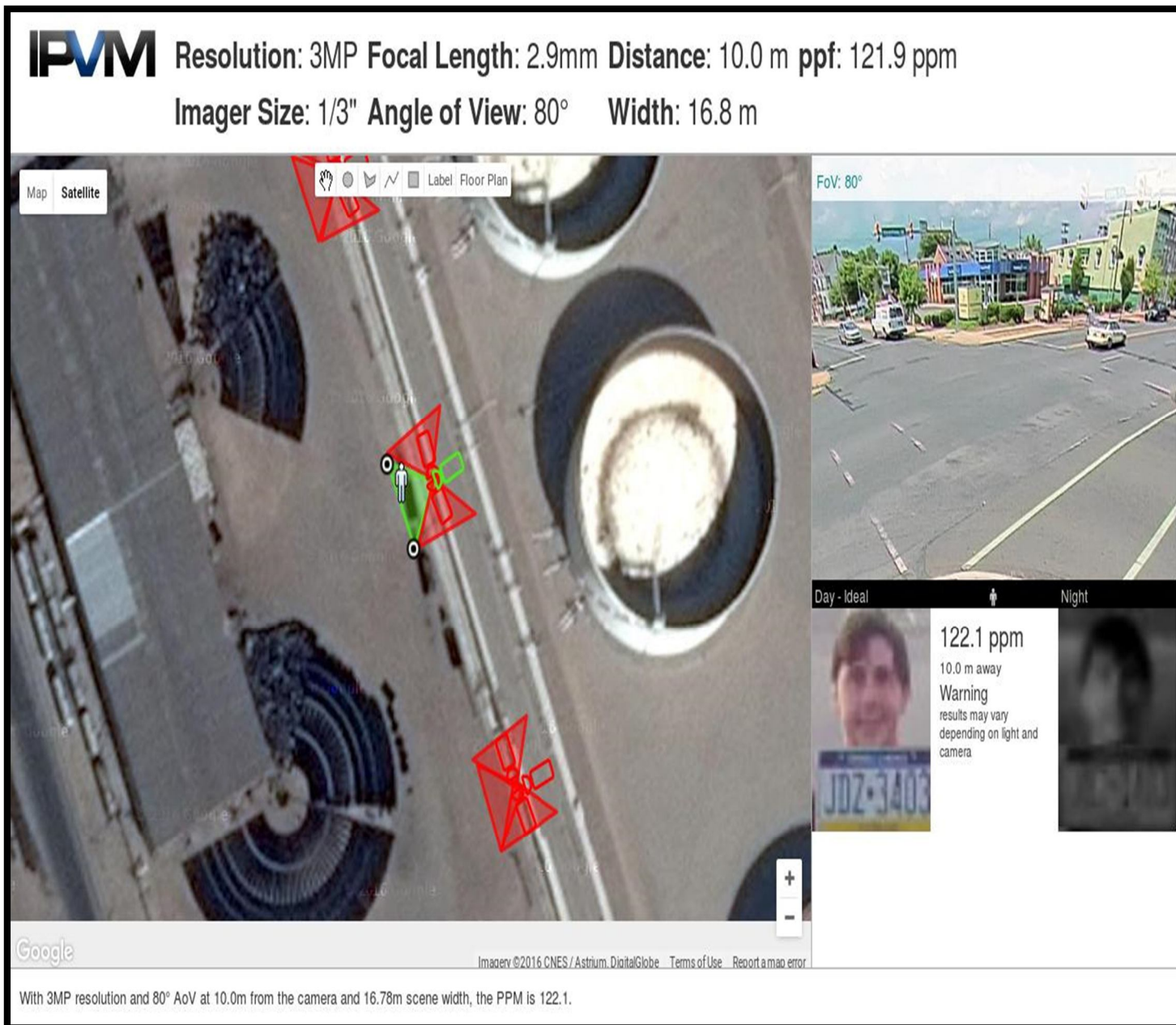
Model: Type F

Resolution: 3MP | Imager Size: 1/3" | Focal Length: 2.9
AoV: 80 | Distance: 10.0 | HFoV: 16.8 | PPF: 122.1

cam no202

Model: Type F

Resolution: 3MP | Imager Size: 1/3" | Focal Length: 2.9
AoV: 80 | Distance: 10.0 | HFoV: 16.8 | PPF: 121.9



cam no203

Model: Type F

Resolution: 3MP | Imager Size: 1/3" | Focal Length: 2.9

AoV: 80 | Distance: 10.0 | HFoV: 16.8 | PPF: 121.9

cam no203

Model: Type F

Resolution: 3MP | Imager Size: 1/3" | Focal Length: 2.9

AoV: 80 | Distance: 10.0 | HFoV: 16.8 | PPF: 122.1



cam no 203

Model: Type F

Resolution: 3MP | Imager Size: 1/3" | Focal Length: 2.9

AoV: 80 | Distance: 10.0 | HFoV: 16.8 | PPF: 122.1

cam no204

Model: Type F

Resolution: 3MP | Imager Size: 1/3" | Focal Length: 2.9

AoV: 80 | Distance: 10.0 | HFoV: 16.8 | PPF: 121.9

IPVM

Resolution: 3MP Focal Length: 2.9mm Distance: 10.0 m ppf: 121.9 ppm

Imager Size: 1/3" Angle of View: 80° Width: 16.8 m

Map Satellite

FoV: 80°

Day - Ideal Night

122.1 ppm
10.0 m away
Warning
results may vary
depending on light and
camera

Google

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With 3MP resolution and 80° AoV at 10.0m from the camera and 16.78m scene width, the PPM is 122.1.

IPVM

Resolution: 3MP Focal Length: 2.9mm Distance: 10.0 m ppf: 122.1 ppm

Imager Size: 1/3" Angle of View: 80° Width: 16.8 m

Map Satellite

FoV: 80°

Day - Ideal Night

122.1 ppm
10.0 m away
Warning
results may vary
depending on light and
camera

Google

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With 3MP resolution and 80° AoV at 10.0m from the camera and 16.78m scene width, the PPM is 122.1.

cam no204

Model: Type F

Resolution: 3MP | Imager Size: 1/3" | Focal Length: 2.9
AoV: 80 | Distance: 10.0 | HFoV: 16.8 | PPF: 121.9

cam no204

Model: Type F

Resolution: 3MP | Imager Size: 1/3" | Focal Length: 2.9
AoV: 80 | Distance: 10.0 | HFoV: 16.8 | PPF: 122.1

IPVM

Resolution: 3MP Focal Length: 2.9mm Distance: 10.0 m ppf: 121.9 ppm

Imager Size: 1/3" Angle of View: 80° Width: 16.8 m

Map Satellite

FoV: 80°

Day - Ideal Night

122.1 ppm
10.0 m away
Warning
results may vary
depending on light and
camera

Google

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With 3MP resolution and 80° AoV at 10.0m from the camera and 16.78m scene width, the PPM is 122.1.

IPVM

Resolution: 3MP Focal Length: 2.9mm Distance: 10.0 m ppf: 121.9 ppm

Imager Size: 1/3" Angle of View: 80° Width: 16.8 m

Map Satellite

FoV: 80°

Day - Ideal Night

122.1 ppm
10.0 m away
Warning
results may vary
depending on light and
camera

Google

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With 3MP resolution and 80° AoV at 10.0m from the camera and 16.78m scene width, the PPM is 122.1.

cam no204

Model: Type F

Resolution: 3MP | Imager Size: 1/3" | Focal Length: 2.9
AoV: 80 | Distance: 10.0 | HFoV: 16.8 | PPF: 121.9

cam no205

Model: Type F

Resolution: 3MP | Imager Size: 1/3" | Focal Length: 2.9
AoV: 80 | Distance: 10.0 | HFoV: 16.8 | PPF: 121.9

IPVM Resolution: 3MP Focal Length: 2.9mm Distance: 10.0 m ppf: 121.9 ppm
Imager Size: 1/3" Angle of View: 80° Width: 16.8 m

The screenshot displays the IPVM software interface. The main window shows a satellite view of a street intersection. A red crosshair is centered on a person icon, indicating the target. A zoomed-in view of the person is shown in the bottom right corner. The zoomed-in view includes a warning message: "Warning results may vary depending on light and camera". The zoomed-in view also shows a license plate reading "JDZ-3403". The zoomed-in view is labeled "Day - Ideal" and "Night". The zoomed-in view also shows a person icon and a zoomed-in view of the person.

Map Satellite

FoV: 80°

Day - Ideal Night

122.1 ppm
10.0 m away
Warning
results may vary
depending on light and
camera

JDZ-3403

Google

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With 3MP resolution and 80° AoV at 10.0m from the camera and 16.78m scene width, the PPM is 122.1.

Resolution: 3MP | **Imager Size:** 1/3" | **Focal Length:** 2.9
AoV: 80 | **Distance:** 10.0 | **HFOv:** 16.8 | **PPF:** 121.9



Resolution: 3MP | **Imager Size:** 1/3" | **Focal Length:** 2.9
AoV: 80 | **Distance:** 10.0 | **HFOv:** 16.8 | **PPF:** 121.9



cam no206

Model: Type F

Resolution: 3MP | Imager Size: 1/3" | Focal Length: 2.9
AoV: 80 | Distance: 10.0 | HFoV: 16.8 | PPF: 121.9

cam no207

Model: Type F

Resolution: 3MP | Imager Size: 1/3" | Focal Length: 2.9
AoV: 80 | Distance: 10.0 | HFoV: 16.8 | PPF: 121.9

IPVM

Resolution: 3MP Focal Length: 2.9mm Distance: 10.0 m ppf: 121.9 ppm

Imager Size: 1/3" Angle of View: 80° Width: 16.8 m

Map Satellite

FoV: 80°

Day - Ideal Night

122.1 ppm
10.0 m away
Warning
results may vary
depending on light and
camera

Google

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With 3MP resolution and 80° AoV at 10.0m from the camera and 16.78m scene width, the PPM is 122.1.

IPVM

Resolution: 3MP Focal Length: 2.9mm Distance: 10.0 m ppf: 121.9 ppm

Imager Size: 1/3" Angle of View: 80° Width: 16.8 m

Map Satellite

FoV: 80°

Day - Ideal Night

122.1 ppm
10.0 m away
Warning
results may vary
depending on light and
camera

Google

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With 3MP resolution and 80° AoV at 10.0m from the camera and 16.78m scene width, the PPM is 122.1.

cam no207

Model: Type F

Resolution: 3MP | Imager Size: 1/3" | Focal Length: 2.9
AoV: 80 | Distance: 10.0 | HFoV: 16.8 | PPF: 121.9

cam no207

Model: Type F

Resolution: 3MP | Imager Size: 1/3" | Focal Length: 2.9
AoV: 80 | Distance: 10.0 | HFoV: 16.8 | PPF: 121.9



cam no208

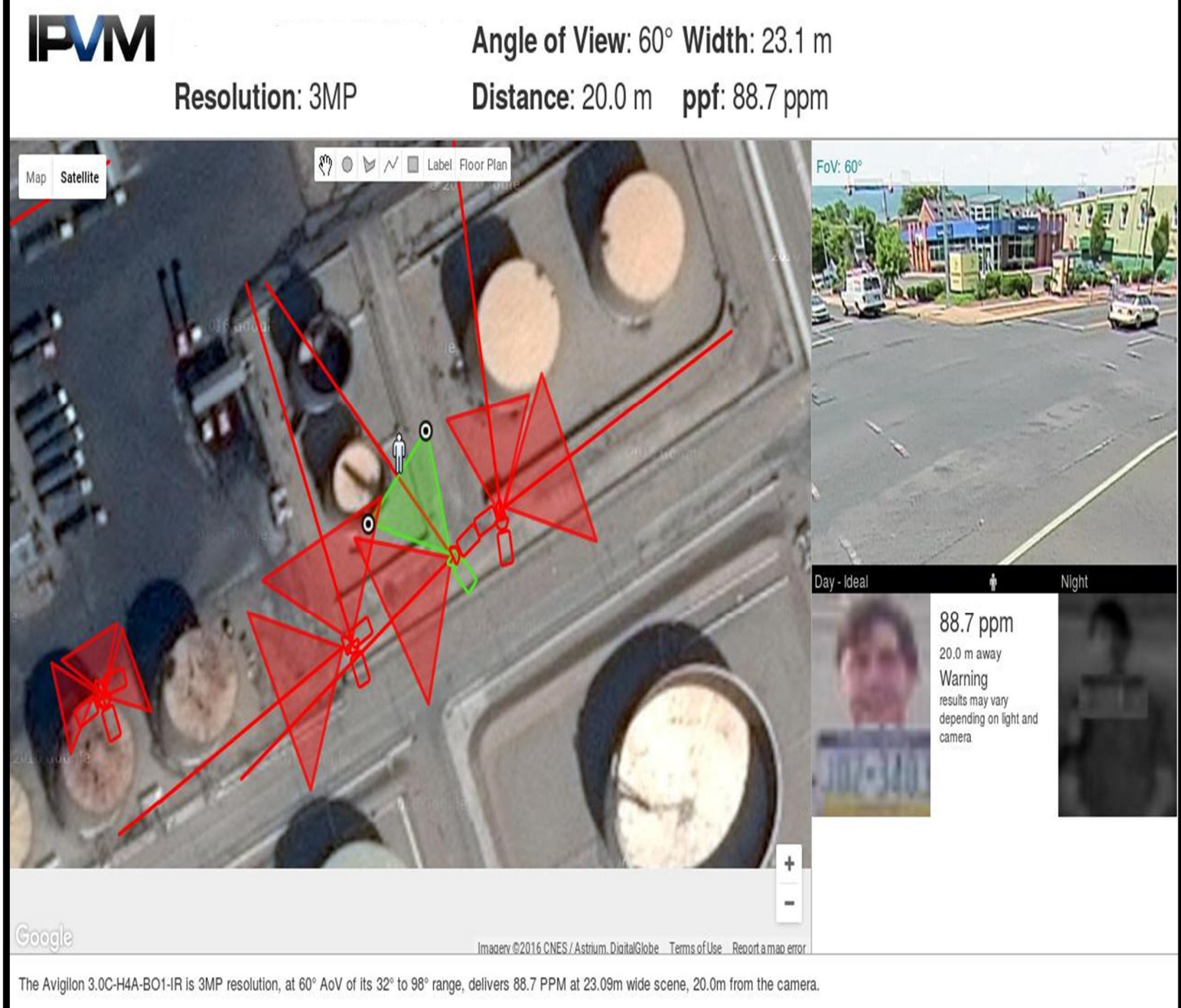
Model: Type F

Resolution: 3MP | Imager Size: 1/3" | Focal Length: 2.9
AoV: 80 | Distance: 10.0 | HFoV: 16.8 | PPF: 122.1

cam no208

Model: Type F

Resolution: 3MP | Imager Size: 1/3" | Focal Length: 2.9
AoV: 80 | Distance: 10.0 | HFoV: 16.8 | PPF: 122.1

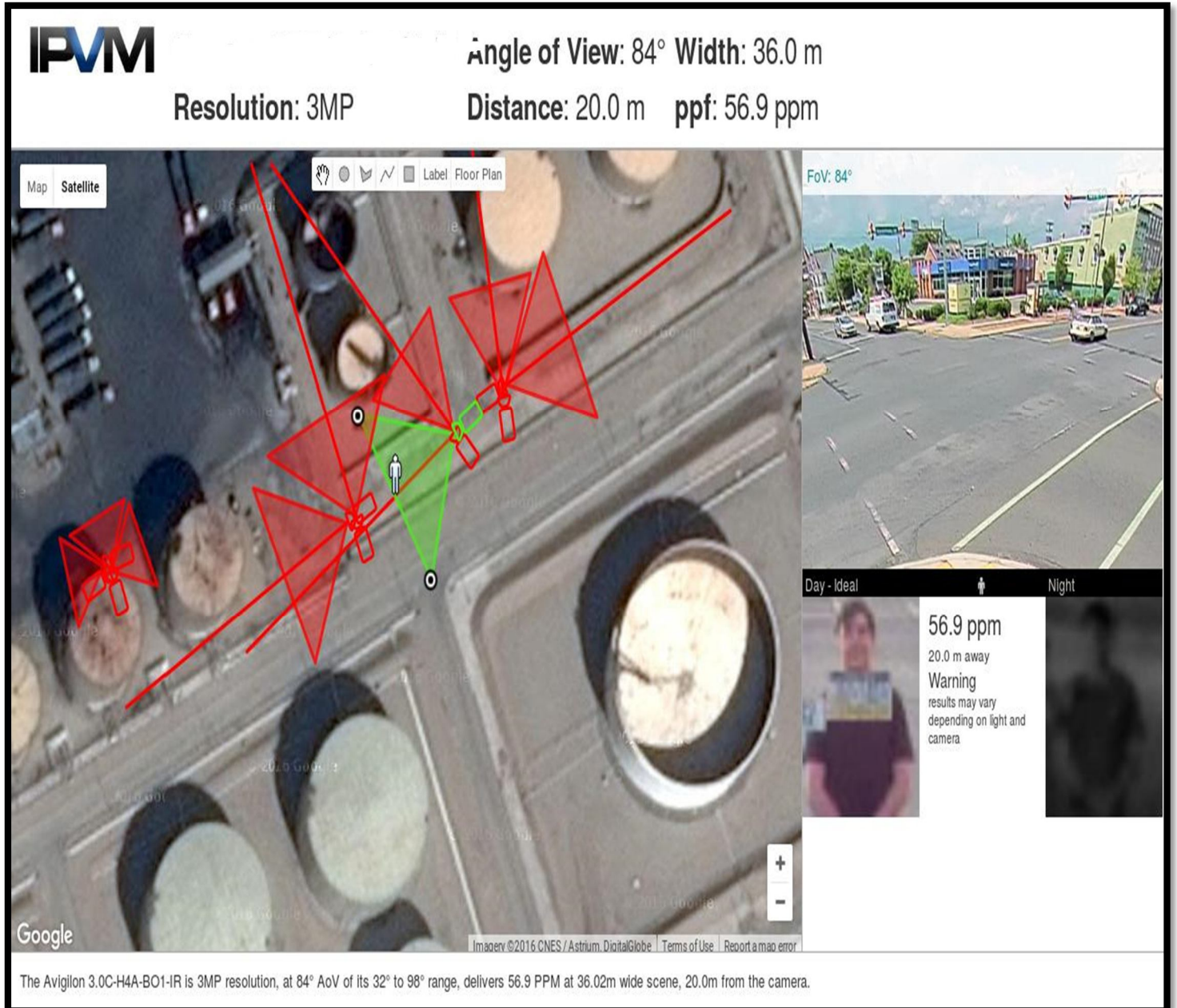
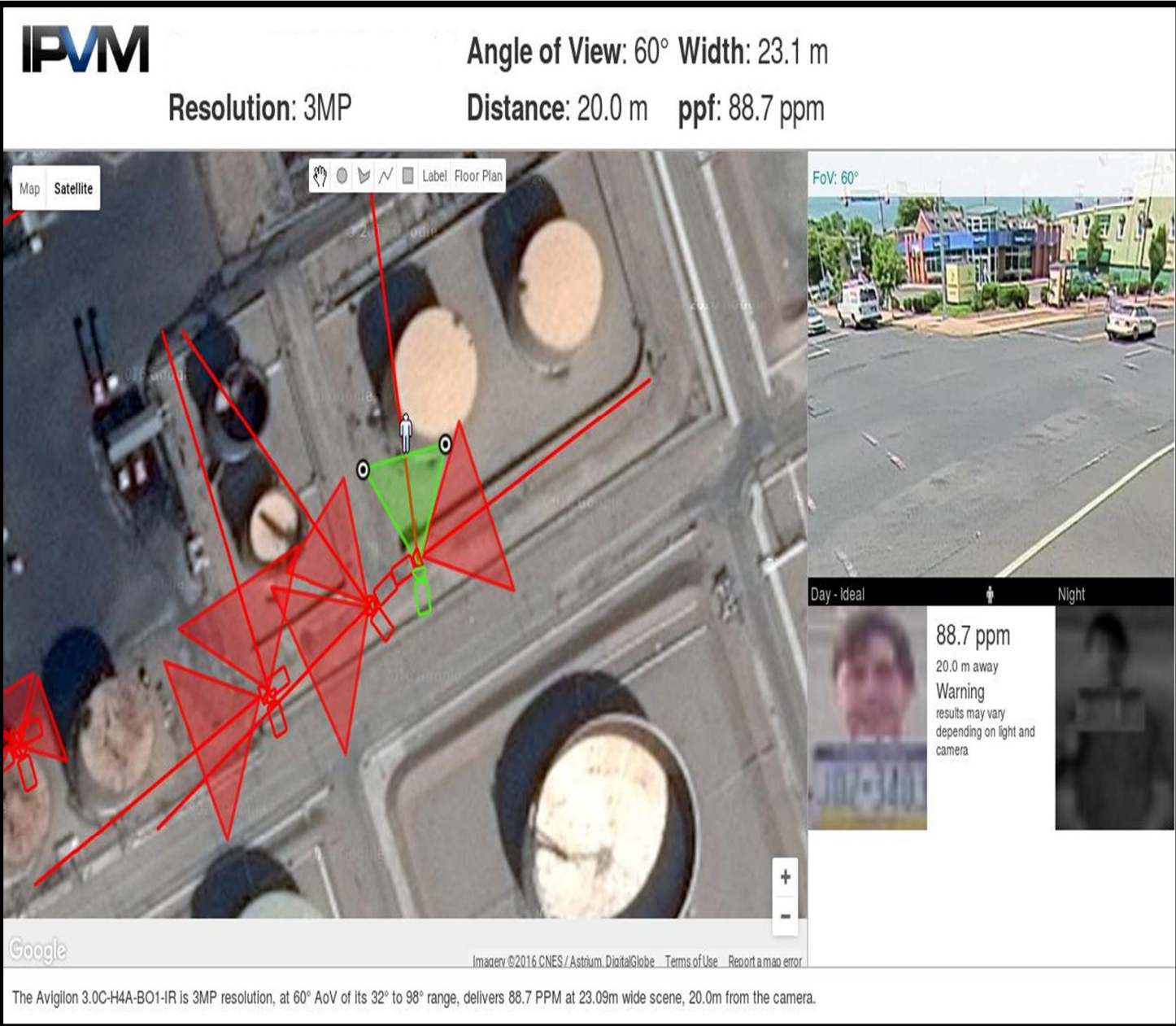


cam no208
Model: Type F

Resolution: 3MP | Imager Size: 1/3" | Focal Length: 2.9
AoV: 80 | Distance: 10.0 | HFoV: 16.8 | PPF: 121.9

cam no209
Model: Type B

Resolution: 3MP | Imager Size: 1/2.8" | Focal Length: 5.6
AoV: 60 | Distance: 20.0 | HFoV: 23.1 | PPF: 88.7

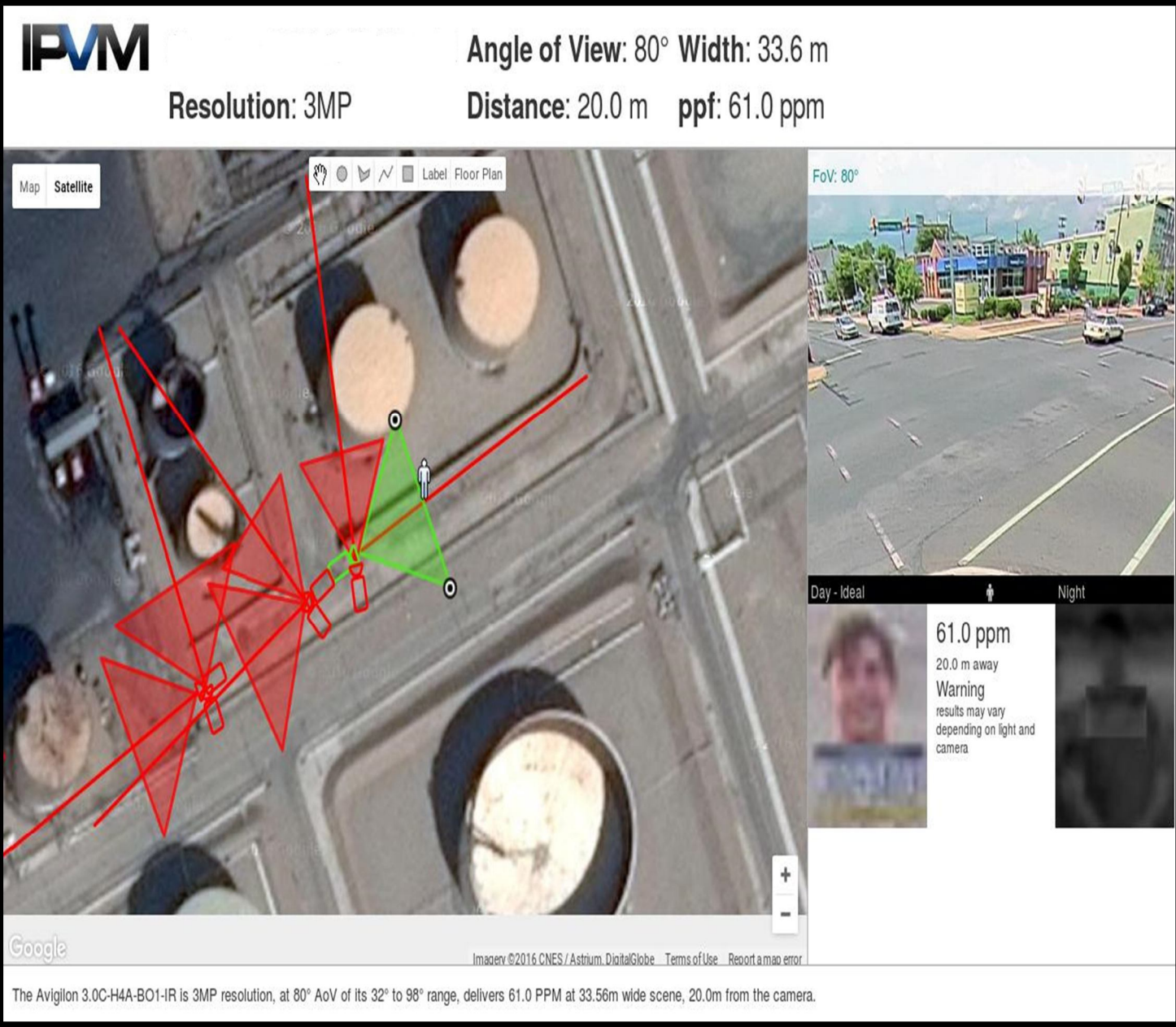


cam no210
Model: Type B

Resolution: 3MP | Imager Size: 1/2.8" | Focal Length: 5.6
AoV: 60 | Distance: 20.0 | HFoV: 23.1 | PPF: 88.7

cam no211
Model: Type B

Resolution: 3MP | Imager Size: 1/2.8" | Focal Length: 3.6
AoV: 84 | Distance: 20.0 | HFoV: 36.0 | PPF: 56.9



cam no212
Model: Type B

Resolution: 3MP | Imager Size: 1/2.8" | Focal Length: 3.8
AoV: 80 | Distance: 20.0 | HFoV: 33.6 | PPF: 61.0

cam no213
Model: Type B

Resolution: 3MP | Imager Size: 1/2.8" | Focal Length: 3.8
AoV: 81 | Distance: 20.0 | HFoV: 34.2 | PPF: 60.0



cam no214

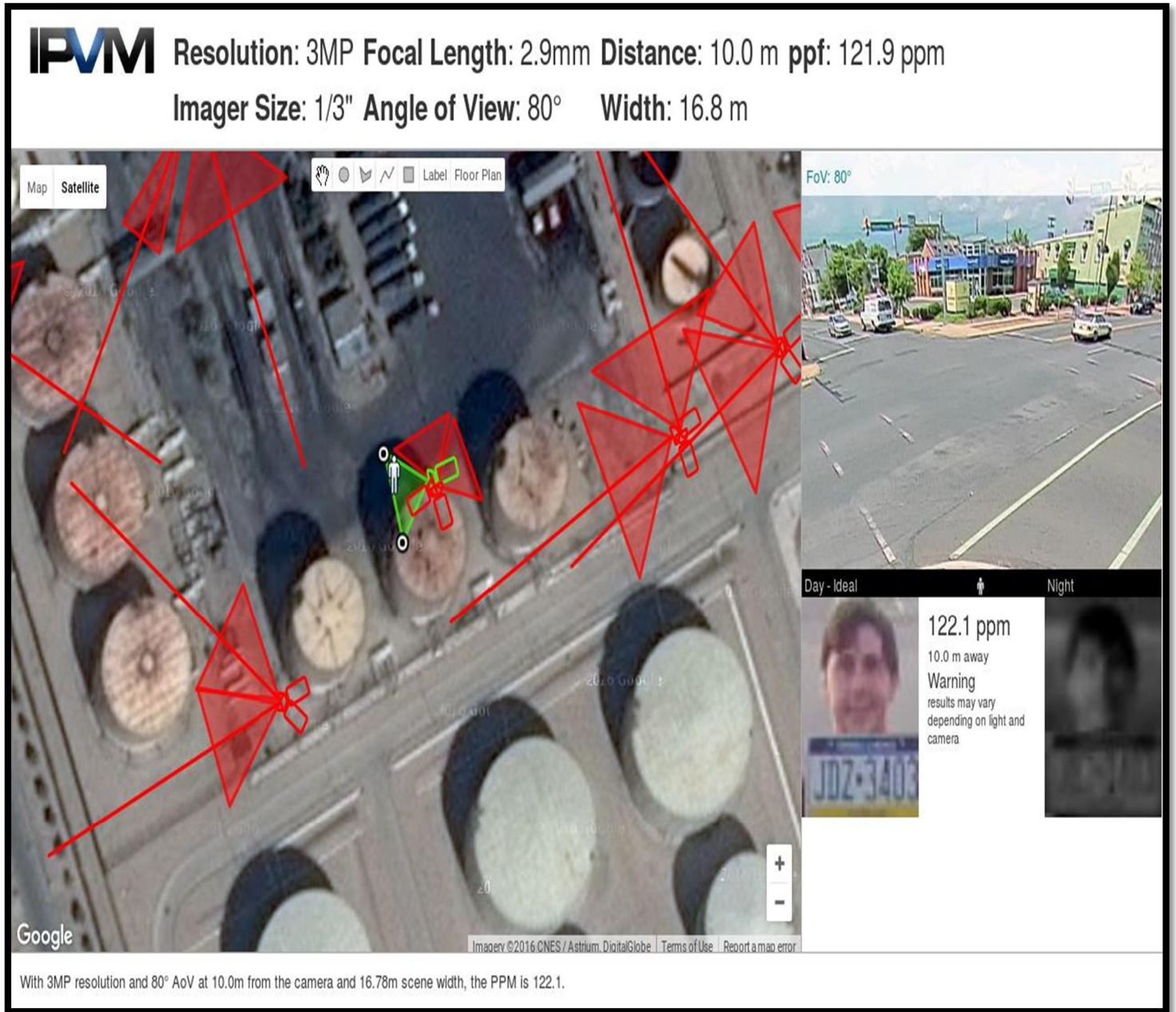
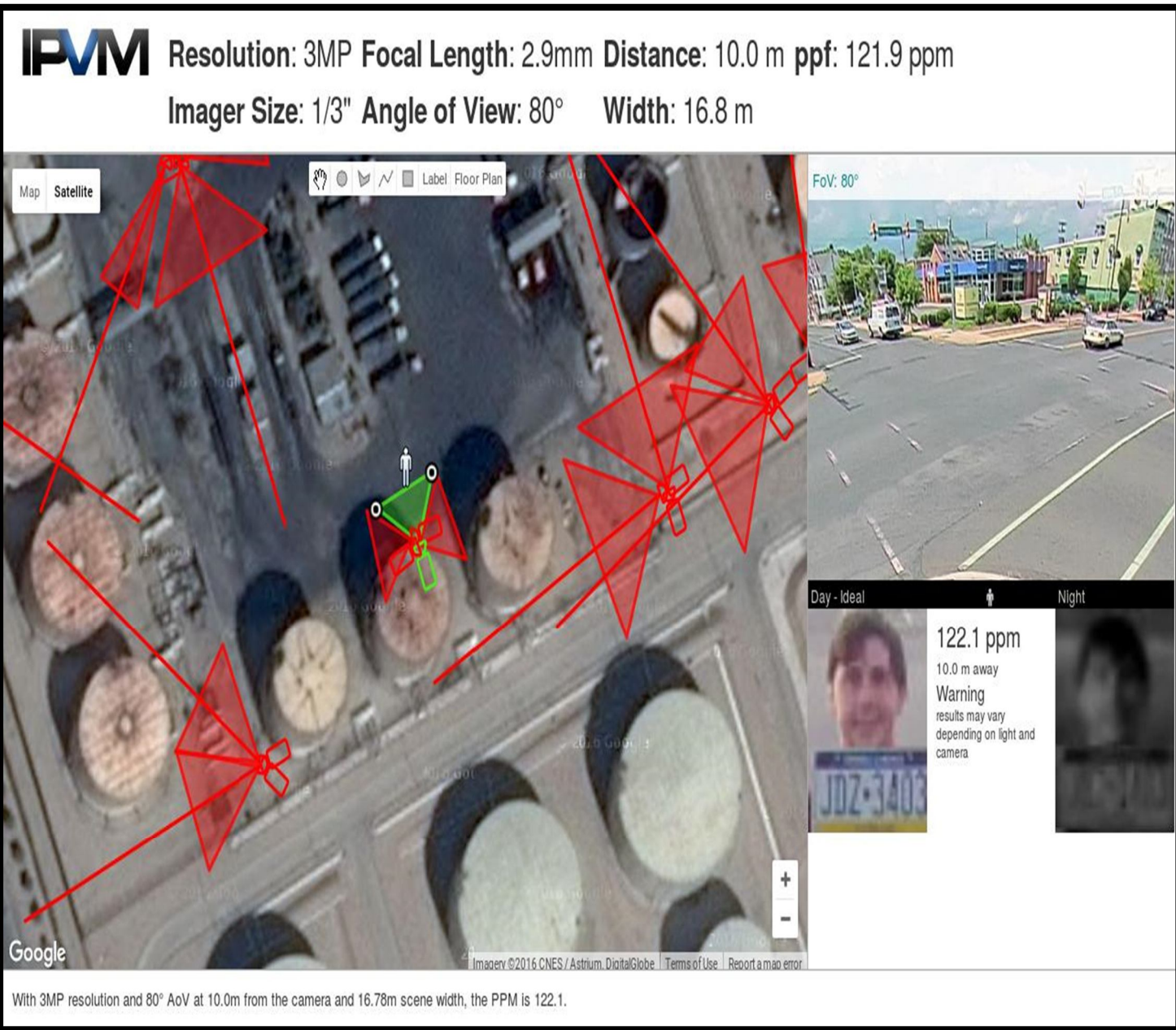
Model: Type B

Resolution: 3MP | Imager Size: 1/2.8" | Focal Length: 3.6
AoV: 84 | Distance: 20.0 | HFoV: 36.0 | PPF: 56.9

cam no215

Model: Type F

Resolution: 3MP | Imager Size: 1/3" | Focal Length: 2.9
AoV: 80 | Distance: 10.0 | HFoV: 16.8 | PPF: 121.9



cam no215

Model: Type F

Resolution: 3MP | Imager Size: 1/3" | Focal Length: 2.9
AoV: 80 | Distance: 10.0 | HFoV: 16.8 | PPF: 121.9

cam no215

Model: Type F

Resolution: 3MP | Imager Size: 1/3" | Focal Length: 2.9
AoV: 80 | Distance: 10.0 | HFoV: 16.8 | PPF: 121.9



cam no216

Model: Type D

Resolution: 1080P | Imager Size: 1/2.8" | Focal Length: 5.6
AoV: 60 | Distance: 20.0 | HFoV: 23.1 | PPF: 83.1

cam no217

Model: Type D

Resolution: 1080P | Imager Size: 1/2.8" | Focal Length: 5.6
AoV: 60 | Distance: 20.0 | HFoV: 23.1 | PPF: 83.1



cam no218
Model: Type B

Resolution: 3MP | Imager Size: 1/2.8" | Focal Length: 6.8
AoV: 51 | Distance: 20.0 | HFoV: 19.1 | PPF: 107.3

cam no219
Model: Type A

Resolution: 5MP | Imager Size: 1/1.8" | Focal Length: 4.3
AoV: 80 | Distance: 20.0 | HFoV: 33.6 | PPF: 77.2

IPVM

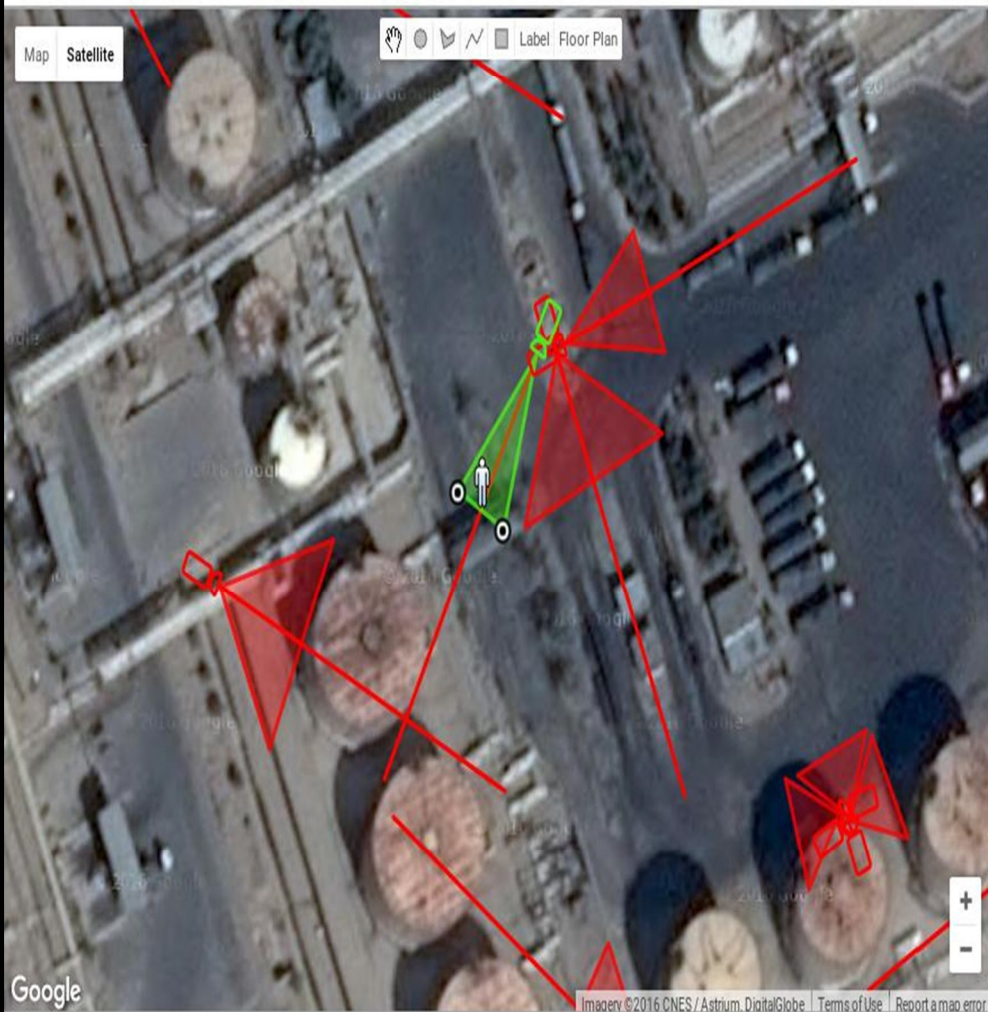
Resolution: 3MP

Angle of View: 25° Width: 11.3 m

Distance: 25.5 m ppf: 181.1 ppm

Map Satellite

FoV: 25°



Day - Ideal



Night



181.1 ppm

25.5 m away

Warning
results may vary
depending on light and
camera

JDZ-3403

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The Avigilon 3.0C-H4A-BO2-IR is 3MP resolution, at 25° AoV of its 15° to 31° range, delivers 181.1 PPM at 11.31m wide scene, 25.5m from the camera.

IPVM

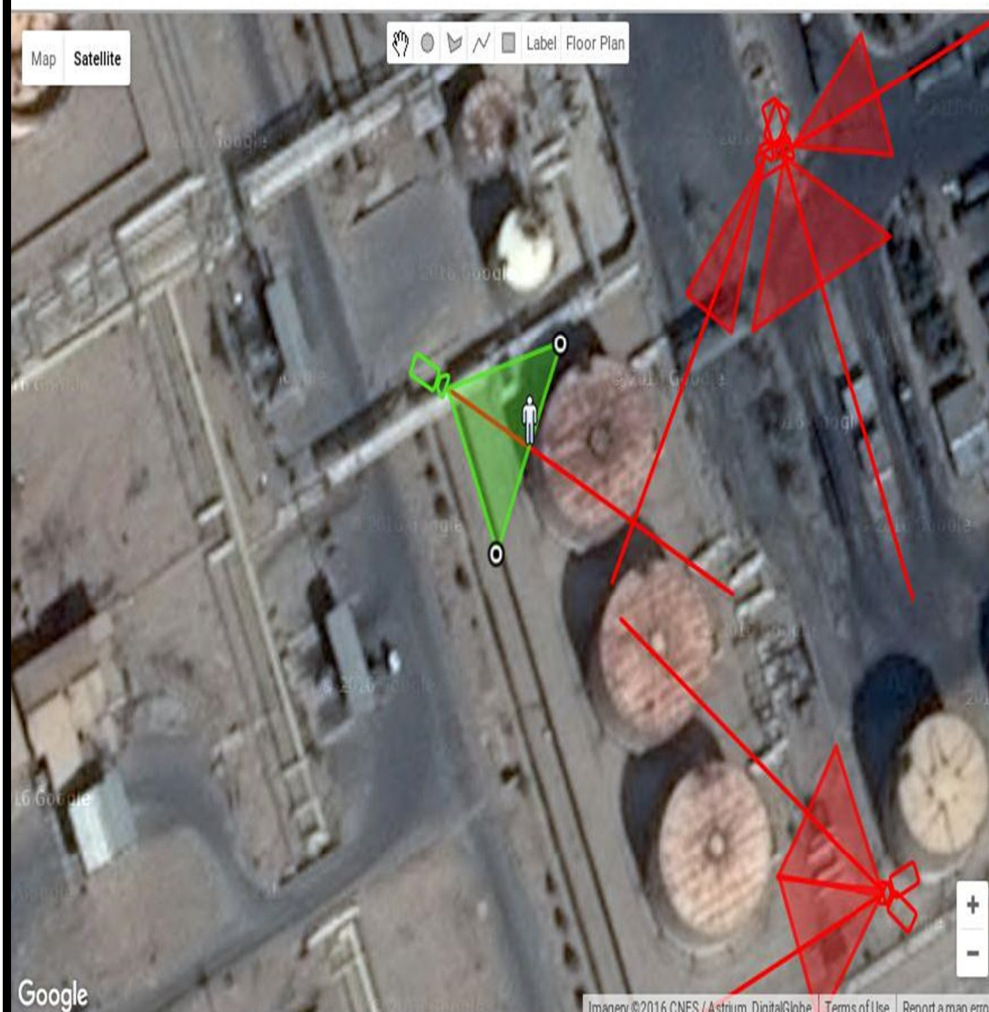
Resolution: 1080P

Angle of View: 80° Width: 33.6 m

Distance: 20.0 m ppf: 57.2 ppm

Map Satellite

FoV: 80°



Day - Ideal



Night



57.2 ppm

20.0 m away

Warning
results may vary
depending on light and
camera

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Google

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The Avigilon 2.0C-H4A-BO1-IR is 1080P resolution, at 80° AoV of its 30° to 91° range, delivers 57.2 PPM at 33.56m wide scene, 20.0m from the camera.

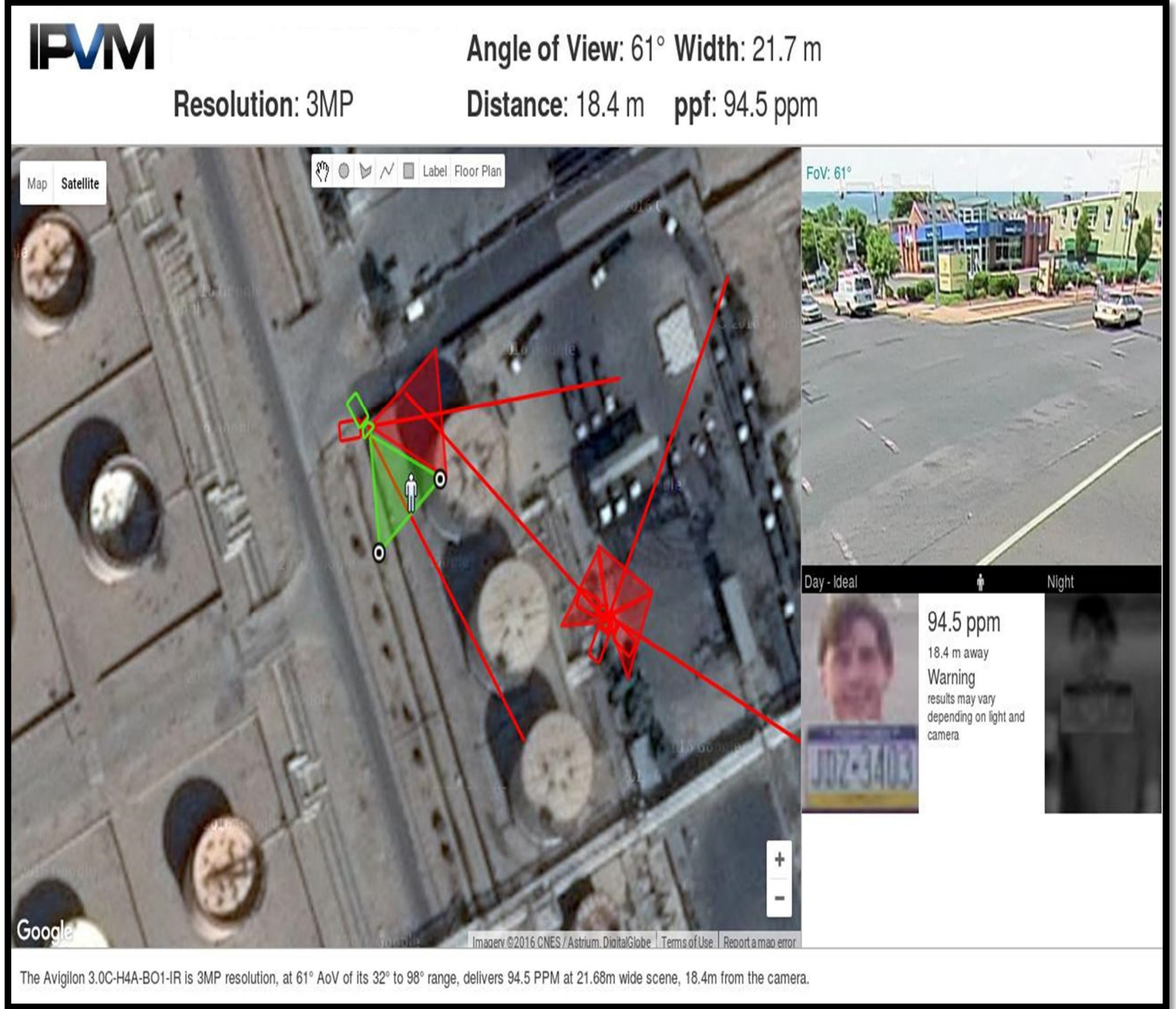
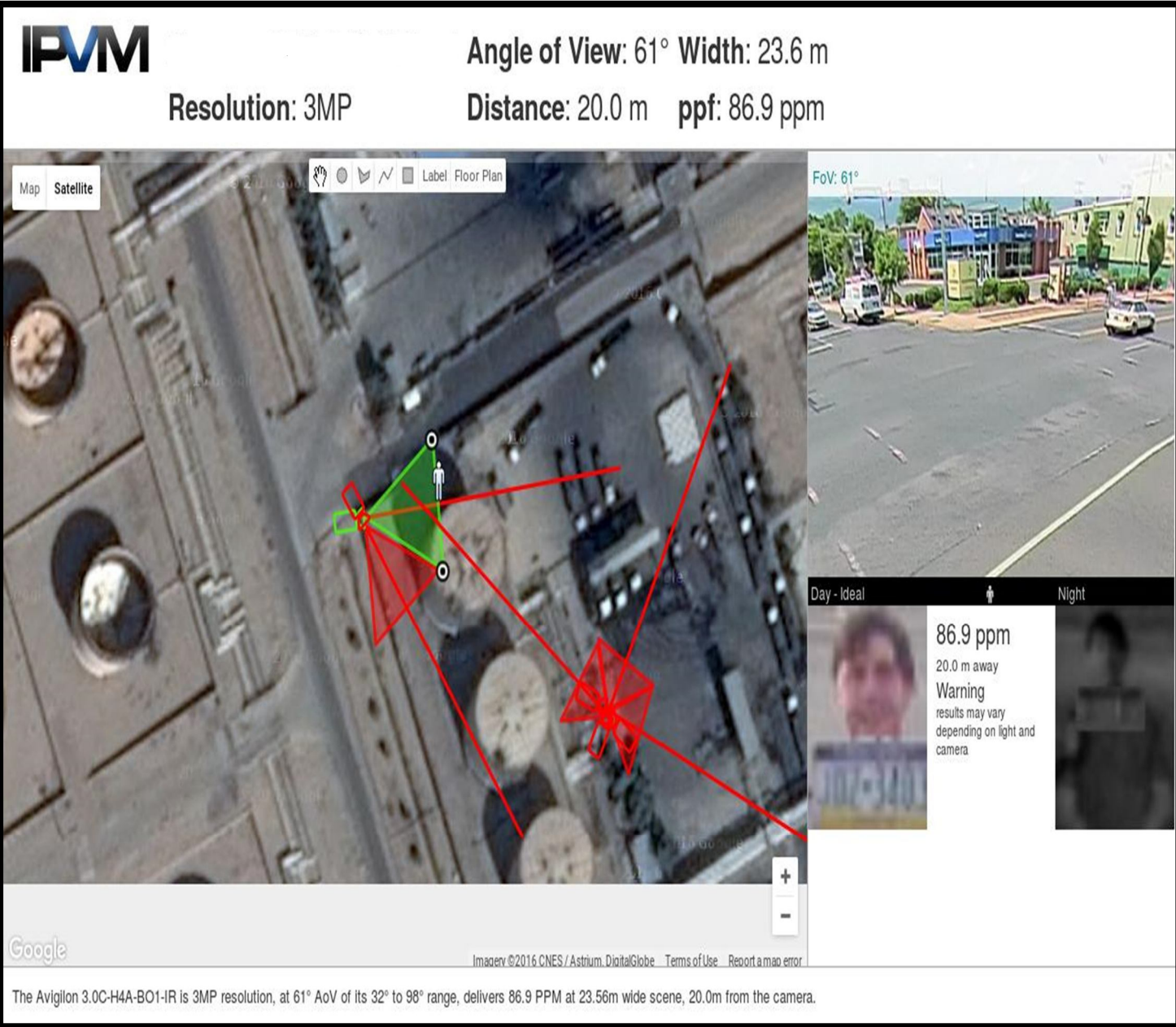
cam no220
Model: Type C

Resolution: 3MP | **Imager Size:** 1/2.8" | **Focal Length:** 14.6
AoV: 25 | **Distance:** 25.5 | **HFoV:** 11.3 | **PPF:** 181.1

cam no221
Model: Type D

Resolution: 1080P | **Imager Size:** 1/2.8" | **Focal Length:** 3.8
AoV: 80 | **Distance:** 20.0 | **HFoV:** 33.6 | **PPF:** 57.2

148



cam no222

Model: Type B

Resolution: 3MP | Imager Size: 1/2.8" | Focal Length: 5.5
AoV: 61 | Distance: 20.0 | HFoV: 23.6 | PPF: 86.8

cam no223

Model: Type B

Resolution: 3MP | Imager Size: 1/2.8" | Focal Length: 5.5
AoV: 61 | Distance: 18.4 | HFoV: 21.7 | PPF: 94.4



cam no224

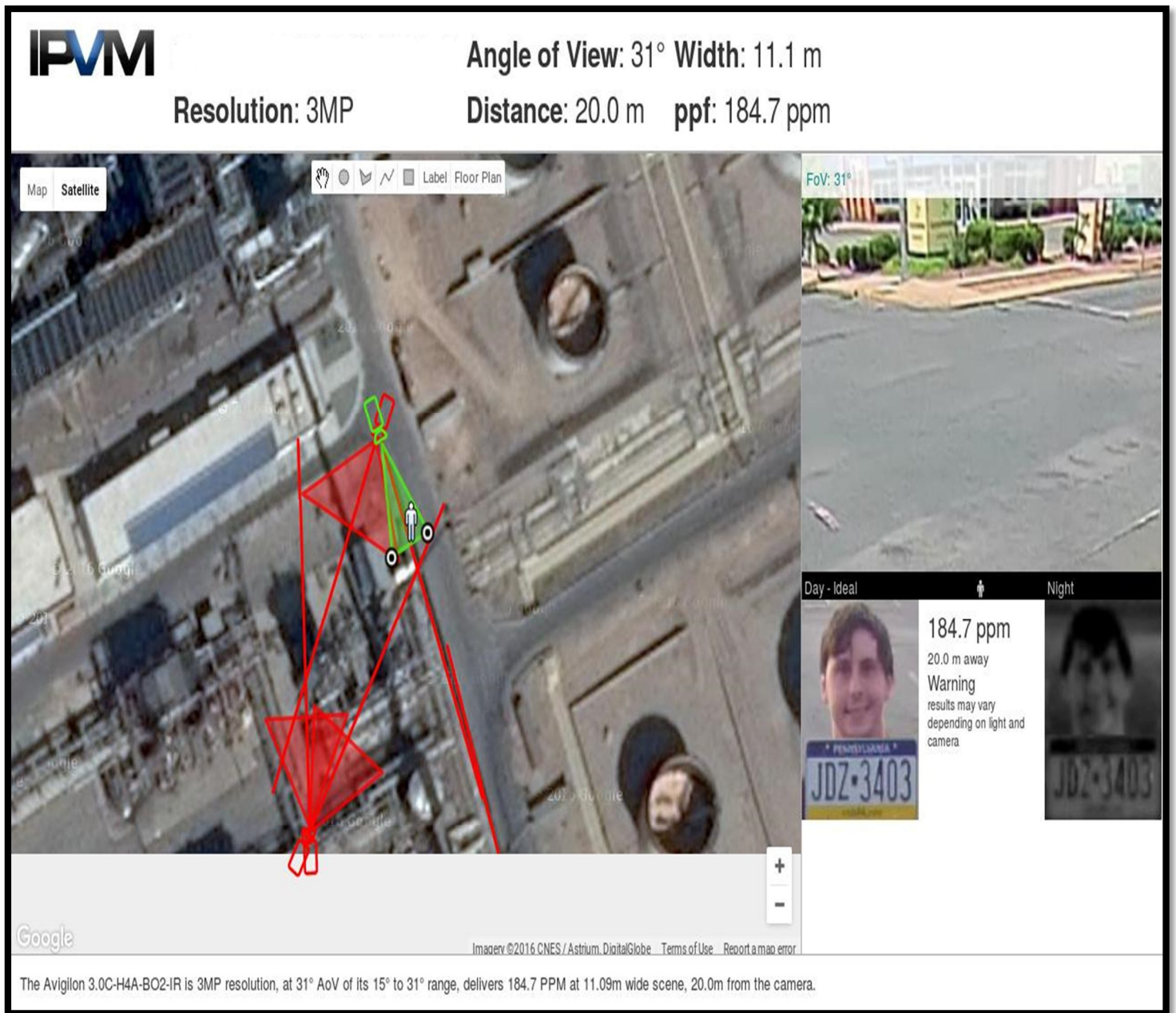
Model: Type F

Resolution: 3MP | Imager Size: 1/2.8" | Focal Length: 3.8
AoV: 80.73 | Distance: 10.0 | HFOV: 17.0 | PPF: 120.5

cam no224

Model: Type F

Resolution: 3MP | Imager Size: 1/2.8" | Focal Length: 3.8
AoV: 80.73 | Distance: 10.0 | HFOV: 17.0 | PPF: 120.5



cam no301
Model: Type B

Resolution: 3MP | Imager Size: 1/2.8" | Focal Length: 3.8
AoV: 80 | Distance: 17.5 | HFoV: 29.4 | PPF: 69.7

cam no302
Model: Type C

Resolution: 3MP | Imager Size: 1/2.8" | Focal Length: 11.6
AoV: 31 | Distance: 20.0 | HFoV: 11.1 | PPF: 184.5



cam no303

Model: Type B

Resolution: 3MP | **Imager Size:** 1/2.8" | **Focal Length:** 5.6
AoV: 60 | **Distance:** 19.9 | **HFoV:** 23.0 | **PPF:** 89.1

cam no304

Model: Type B

Resolution: 3MP | **Imager Size:** 1/2.8" | **Focal Length:** 5.7
AoV: 59 | **Distance:** 20.0 | **HFoV:** 22.6 | **PPF:** 90.5



cam no305

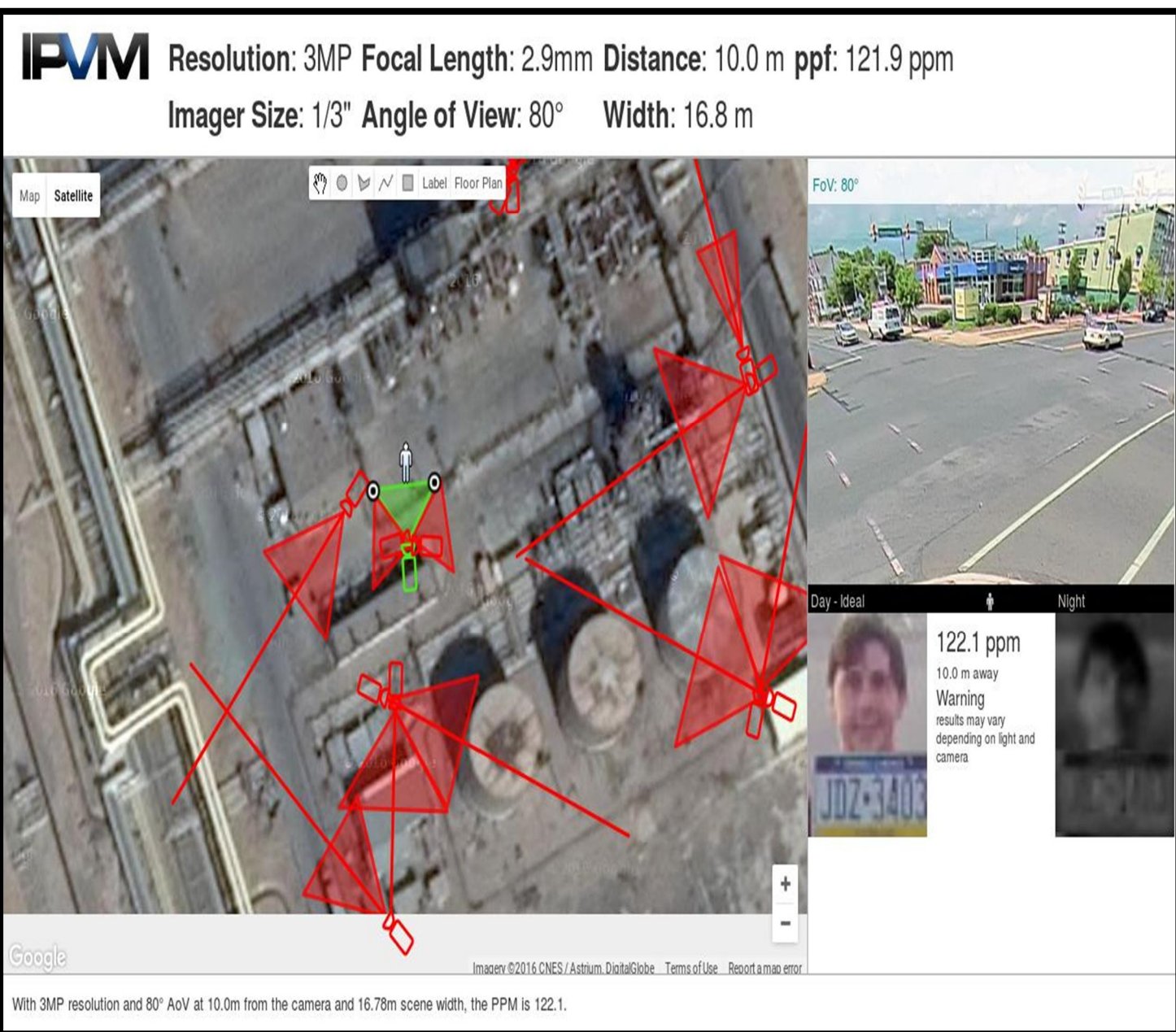
Model: Type D

Resolution: 1080P | **Imager Size:** 1/2.8" | **Focal Length:** 5.6
AoV: 60 | **Distance:** 20.0 | **HFoV:** 23.1 | **PPF:** 83.2

cam no 306

Model: Type F

Resolution: 3MP | **Imager Size:** 1/3" | **Focal Length:** 3.8
AoV: 80 | **Distance:** 10.0 | **HFoV:** 16.8 | **PPF:** 122.1



cam no306

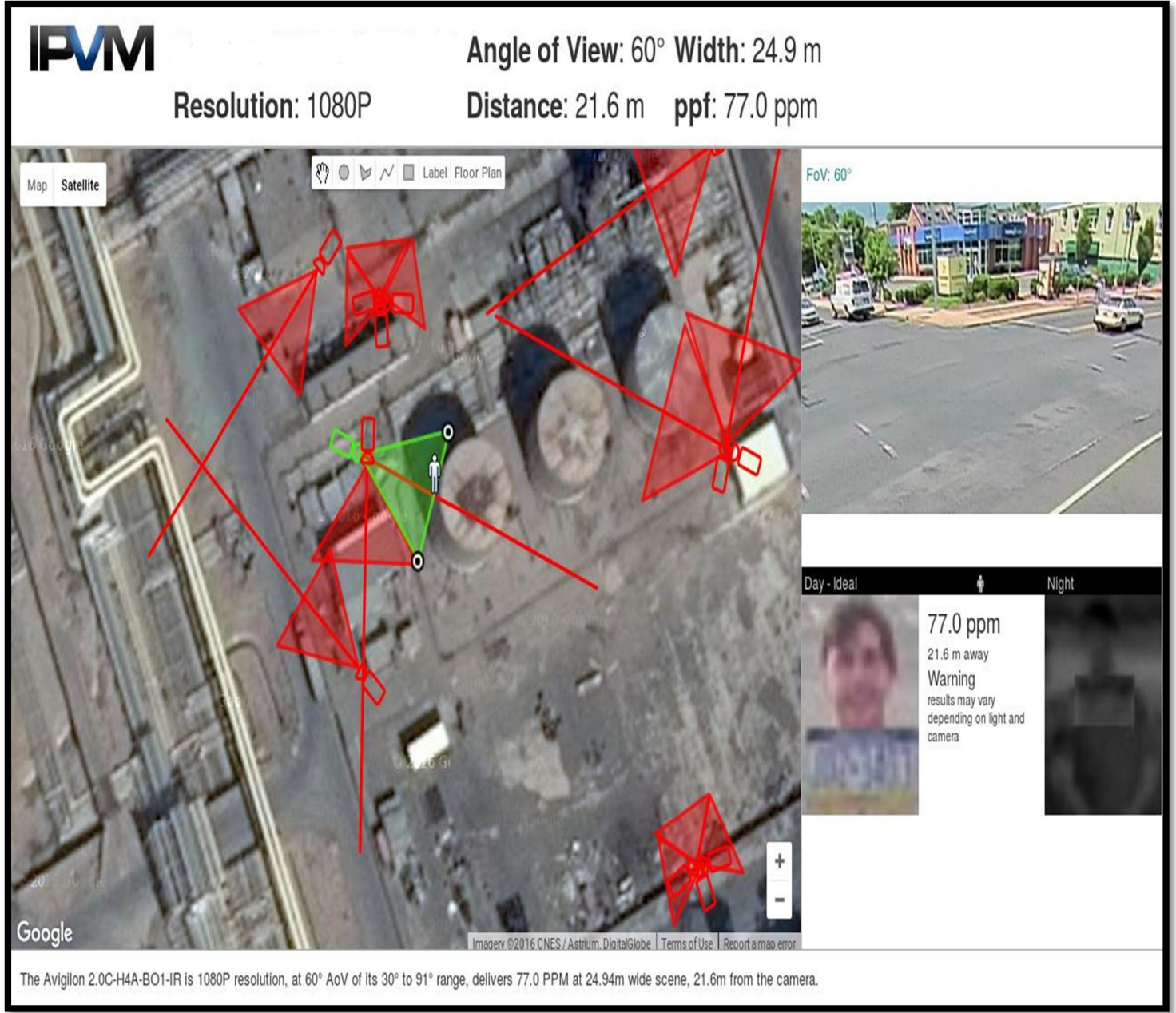
Model: Type F

Resolution: 3MP | Imager Size: 1/3" | Focal Length: 2.9
AoV: 80 | Distance: 10.0 | HFoV: 16.8 | PPF: 122.1

cam no306

Model: Type F

Resolution: 3MP | Imager Size: 1/3" | Focal Length: 2.9
AoV: 80 | Distance: 10.0 | HFoV: 16.8 | PPF: 122.1



cam no307

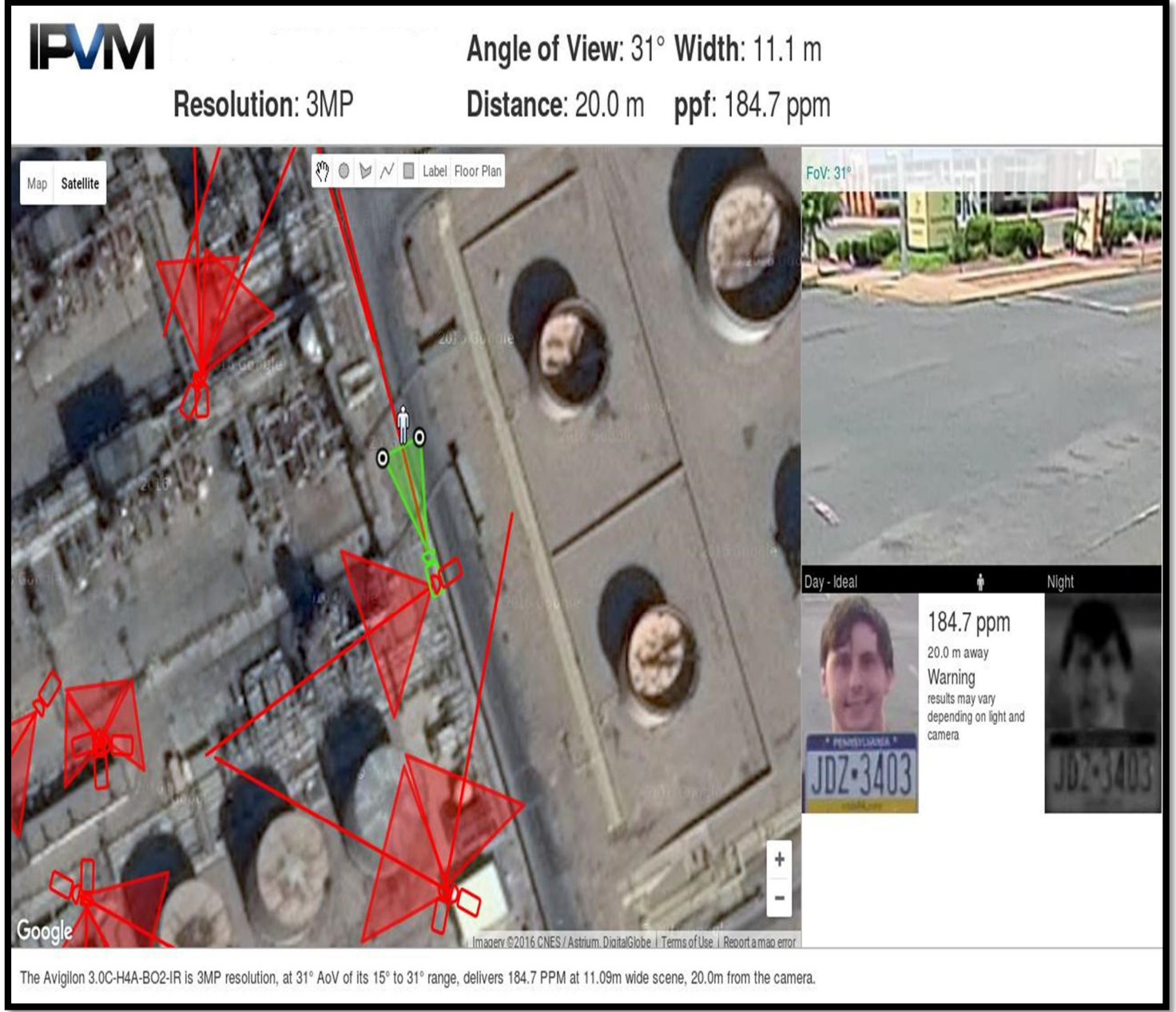
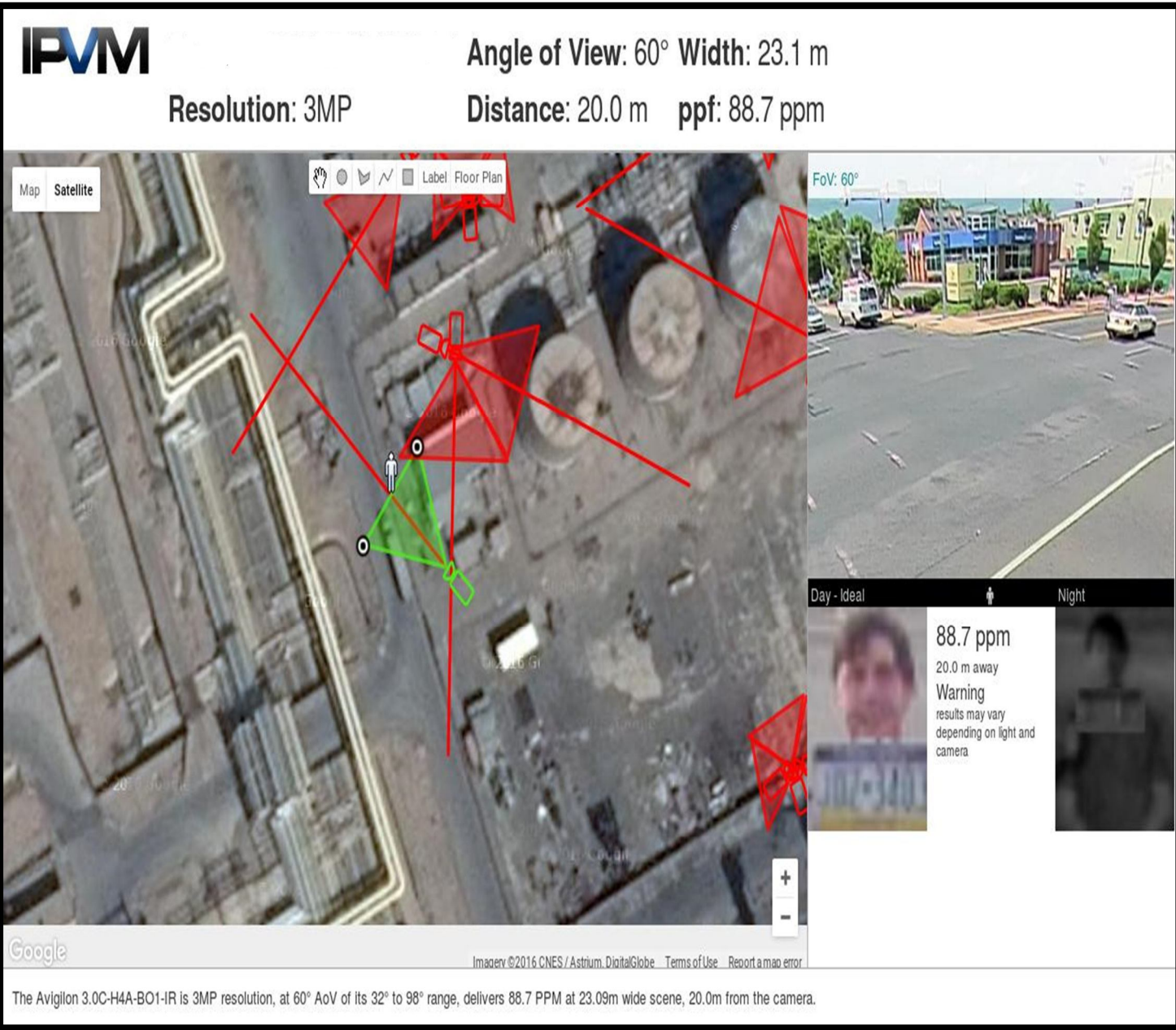
Model: Type D

Resolution: 1080P | Imager Size: 1/2.8" | Focal Length: 3.8
AoV: 81 | Distance: 17.4 | HFoV: 29.7 | PPF: 64.6

cam no308

Model: Type D

Resolution: 1080P | Imager Size: 1/2.8" | Focal Length: 5.6
AoV: 60 | Distance: 21.6 | HFoV: 24.9 | PPF: 77.1



cam no309
Model: Type B

Resolution: 3MP | **Imager Size:** 1/2.8" | **Focal Length:** 5.6
AoV: 60 | **Distance:** 20.0 | **HFoV:** 23.1 | **PPF:** 88.7

cam no310
Model: Type C

Resolution: 3MP | **Imager Size:** 1/2.8" | **Focal Length:** 11.6
AoV: 31 | **Distance:** 20.0 | **HFoV:** 11.1 | **PPF:** 184.5



cam no311

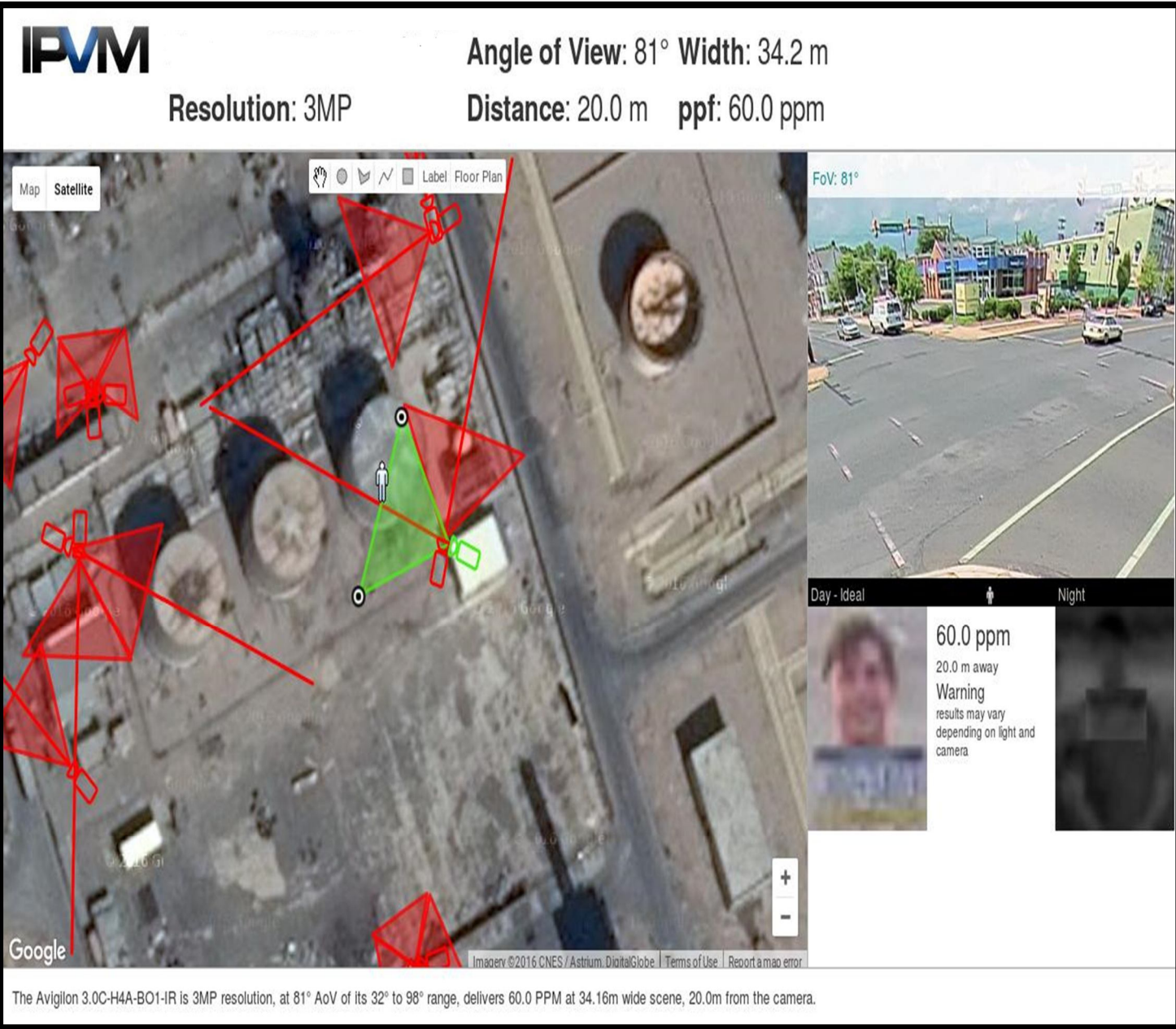
Model: Type B

Resolution: 3MP | Imager Size: 1/2.8" | Focal Length: 3.8
AoV: 80 | Distance: 20.0 | HFoV: 33.6 | PPF: 61.0

cam no312

Model: Type B

Resolution: 3MP | Imager Size: 1/2.8" | Focal Length: 3.8
AoV: 81 | Distance: 20.0 | HFoV: 34.2 | PPF: 60.0



cam no313
Model: Type B

Resolution: 3MP | **Imager Size:** 1/2.8" | **Focal Length:** 3.8
AoV: 81 | **Distance:** 20.0 | **HFoV:** 34.2 | **PPF:** 60.0

cam no314
Model: Type F

Resolution: 3MP | **Imager Size:** 1/3" | **Focal Length:** 2.9
AoV: 80 | **Distance:** 10.0 | **HFoV:** 16.8 | **PPF:** 121.9



cam no314

Model: Type F

Resolution: 3MP | Imager Size: 1/3" | Focal Length: 3.8
AoV: 80 | Distance: 10.0 | HFoV: 16.8 | PPF: 122.1

cam no314

Model: Type F

Resolution: 3MP | Imager Size: 1/3" | Focal Length: 3.8
AoV: 80 | Distance: 10.0 | HFoV: 16.8 | PPF: 122.1

مشخصات فنی دوربین A

Outdoor use	مکان کاربری
Progressive Scan CMOS اینچ ۱/۱.۸	سنسور:
lux ۰.۰۳ در حالت رنگی	حداقل روشنایی:
MJPEG و H.۲۶۴	فشرده سازی تصویر:
۵ MP (۲۵۹۲*۱۹۴۴)	اندازه تصویر:
Motorized ۴-۸mm	لنز مگاپیکسل:
Adaptive IR up to ۵۰m	منبع تامین مادون قرمز:
۳۰ FPS@ ۵MP	سرعت تصویر برداری:
SD/SDHC up to ۶۴GB	حافظه جانبی:
بالتر از ۸۰dB	گستره داینامیک:
Self-Learning Video Analytic	پردازش هوشمند تصاویر:
-۲۰c to +۵۵c	شرایط دمایی قابل تحمل:
حداقل ۳ سال	گارانتی:
Other features	
Bandwidth management topology	
UL / cUL / CE / ROHS / EN Standards	
IK۱۰ / IP۶۶ Rating	
Analytics: Objects Crossing Beam - Objects in Area - Object Appears or Enters Area - Objects Enter Area - Object Stops in Area - Direction Violated - Tamper Detection	

مشخصات فنی دوربین B

Outdoor use	مکان کاربری
Progressive Scan CMOS اینچ ۱/۲.۸	سنسور:
lux ۰.۰۴ در حالت رنگی	حداقل روشنایی:
MJPEG و H.۲۶۴	فشرده سازی تصویر:
۳ MP (۲۰۴۸*۱۵۳۶)	اندازه تصویر:
Motorized ۳-۹mm	لنز مگاپیکسل:
Adaptive IR up to ۵۰m	منبع تامین مادون قرمز:
۳۰ FPS@ ۳MP	سرعت تصویر برداری:
SD/SDHC up to ۶۴GB	حافظه جانبی:
بالتر از ۹۰dB	گستره داینامیک:
Self-Learning Video Analytic	پردازش هوشمند تصاویر:
-۲۰c to +۵۵c	شرایط دمایی قابل تحمل:
حداقل ۳ سال	گارانتی:
Other features	
Bandwidth management topology	
UL / cUL / CE / ROHS / EN Standards	
IK۱۰ / IP۶۶ Rating	
Analytics: Objects Crossing Beam - Objects in Area - Object Appears or Enters Area - Objects Enter Area - Object Stops in Area - Direction Violated - Tamper Detection	

مشخصات فنی دوربین C

Outdoor use	مکان کاربری
Progressive Scan CMOS ۱/۲,۸ اینچ	سنسور:
۰,۰۸ lux در حالت رنگی	حداقل روشنایی:
MJPEG و H.۲۶۴	فشرده سازی تصویر:
۳ MP (۲۰۴۸*۱۵۳۶)	اندازه تصویر:
Motorized ۹-۲۲mm	لنز مگاپیکسل:
Adaptive IR up to ۷۰m	منبع تامین مادون قرمز:
۳۰ FPS@ ۳MP	سرعت تصویر برداری:
SD/SDHC up to ۶۴GB	حافظه جانبی:
۹۰dB بالاتر از	گستره داینامیک:
Self-Learning Video Analytic	پردازش هوشمند تصاویر:
-۲۰c to +۵۵c	شرایط دمایی قابل تحمل:
حداقل ۳ سال	گارانتی:
Other features	
Bandwidth management topology	
UL / cUL / CE / ROHS / EN Standards	
IK۱۰ / IP۶۶ Rating	
Analytics: Objects Crossing Beam - Objects in Area - Object Appears or Enters Area - Objects Enter Area - Object Stops in Area - Direction Violated - Tamper Detection	

مشخصات فنی دوربین D

Outdoor use	مکان کاربری
Progressive Scan CMOS ۱/۲,۸ اینچ	سنسور:
۰,۰۴ lux در حالت رنگی	حداقل روشنایی:
MJPEG و H.۲۶۴	فشرده سازی تصویر:
۲ MP (۱۹۲۰*۱۰۸۰)	اندازه تصویر:
Motorized ۳-۹mm	لنز مگاپیکسل:
Adaptive IR up to ۵۰m	منبع تامین مادون قرمز:
۳۰ FPS@ ۳MP	سرعت تصویر برداری:
SD/SDHC up to ۶۴GB	حافظه جانبی:
۱۰۰dB بالاتر از	گستره داینامیک:
Self-Learning Video Analytic	پردازش هوشمند تصاویر:
-۲۰c to +۵۵c	شرایط دمایی قابل تحمل:
حداقل ۳ سال	گارانتی:
Other features	
Bandwidth management topology	
UL / cUL / CE / ROHS / EN Standards	
IK۱۰ / IP۶۶ Rating	
Analytics: Objects Crossing Beam - Objects in Area - Object Appears or Enters Area - Objects Enter Area - Object Stops in Area - Direction Violated - Tamper Detection	

مشخصات فنی دوربین E

Outdoor use	مکان کاربری
۳*۱/۳" CMOS WDR Sensor	سنسور:
۰,۲ lux در حالت رنگی	حداقل روشنایی:
MJPEG و H.۲۶۴	فشرده سازی تصویر:
۹MP = ۳*۳ MP/ ۳*(۲۰۴۸*۱۵۳۶)	اندازه تصویر:
Motorized ۳-۹mm	لنز مگاپیکسل هر سنسور:
قابل تنظیم بصورت مجزا هنگام نصب دوربین	زاویه پوشش هر سنسور:
۲۰ FPS per Sensor	سرعت تصویر برداری:
SD/SDHC up to ۶۴GB	حافظه جانبی:
۹۰dB بالاتر از	گستره داینامیک هر سنسور :
-----	پردازش هوشمند تصاویر:
-۲۰c to +۵۰c	شرایط دمایی قابل تحمل:
حداقل ۳ سال	گارانتی:
Other features	
Bandwidth management topology	
UL / cUL / CE / ROHS / EN Standards	
IK۱۰ / IP۶۶ Rating	

مشخصات فنی دوربین F

Outdoor use	مکان کاربری
۳*۱/۳" CMOS WDR Sensor	سنسور:
۰,۲ lux در حالت رنگی	حداقل روشنایی:
MJPEG و H.۲۶۴	فشرده سازی تصویر:
۹MP = ۳*۳ MP/ ۳*(۲۰۴۸*۱۵۳۶)	اندازه تصویر:
Motorized ۳-۹mm	لنز مگاپیکسل هر سنسور:
قابل تنظیم بصورت مجزا هنگام نصب دوربین	زاویه پوشش هر سنسور:
۲۰ FPS per Sensor	سرعت تصویر برداری:
SD/SDHC up to ۶۴GB	حافظه جانبی:
۹۰dB بالاتر از	گستره داینامیک هر سنسور :
-----	پردازش هوشمند تصاویر:
-۲۰c to +۵۰c	شرایط دمایی قابل تحمل:
حداقل ۳ سال	گارانتی:
Other features	
Bandwidth management topology	
UL / cUL / CE / ROHS / EN Standards	
IK۱۰ / IP۶۶ Rating	

مشخصات فنی دوربین I

Indoor use	مکان کاربری
۱/۳" CMOS WDR Sensor	سنسور:
۰,۲ lux در حالت رنگی	حداقل روشنایی:
MJPEG و H.۲۶۴	فشرده سازی تصویر:
۳ MP (۲۰۴۸*۱۵۳۶)	اندازه تصویر:
Motorized ۳-۹mm	لنز مگاپیکسل هر سنسور:
نصب درون سقف کاذب (In-Ceiling Dome)	نوع نصب:
۲۰ FPS @ ۳MP	سرعت تصویر برداری:
SD/SDHC up to ۶۴GB	حافظه جانبی:
۹۰dB از بالاتر	گستره داینامیک هر سنسور :
-----	پردازش هوشمند تصاویر:
-۲۰c to +۵۰c	شرایط دمایی قابل تحمل:
حداقل ۳ سال	گارانتی:
Other features	
Bandwidth management topology UL / cUL / CE / ROHS / EN Standards IK۱۰ / IP۶۶ Rating	

Outdoor use	مکان کاربری
۴*۱/۴" CMOS Progressive scan	سنسور:
۰,۲ lux در حالت رنگی	حداقل روشنایی:
JPEG۲۰۰۰	فشرده سازی تصویر:
۸MP = ۴*۲ MP/ ۴*(۱۶۰۰*۱۲۰۰)	اندازه تصویر:
Fixed lens ۴,۴mm	لنز مگاپیکسل هر سنسور:
قتنظیم شده در کارخانه جهت پوشش ۱۸۰ درجه ای	زاویه پوشش هر سنسور:
۷ FPS per Sensor	سرعت تصویر برداری:
-----	حافظه جانبی:
۷۰dB از بالاتر	گستره داینامیک هر سنسور :
-----	پردازش هوشمند تصاویر:
-۲۰c to +۵۰c	شرایط دمایی قابل تحمل:
حداقل ۳ سال	گارانتی:
Other features	
Bandwidth management topology UL / cUL / CE / ROHS / EN Standards IK۱۰ / IP۶۶ Rating	

مشخصات فنی دوربین J

Indoor use (Vandal)	مکان کاربری
۱/۳" CMOS WDR Sensor	سنسور:
۰,۲ lux در حالت رنگی	حداقل روشنایی:
MJPEG و H.۲۶۴	فشرده سازی تصویر:
۳ MP (۲۰۴۸*۱۵۳۶)	اندازه تصویر:
Motorized ۳-۹mm	لنز مگاپیکسل هر سنسور:
نصب روی سقف (Vandal Dome)	نوع نصب:
۳۰ FPS @ ۳MP	سرعت تصویر برداری:
SD/SDHC up to ۶۴GB	حافظه جانبی:
بالاتر از ۹۰dB	گستره داینامیک هر سنسور :
Adaptive IR up to ۳۰m	منبع تامین مادون قرمز:
-۲۰c to +۵۰c	شرایط دمایی قابل تحمل:
حداقل ۳ سال	گارانتی:
Other features	
Bandwidth management topology UL / cUL / CE / ROHS / EN Standards IK۱۰ / IP۶۶ Rating	

مشخصات فنی دوربین K

Indoor use (Vandal)	مکان کاربری
۱/۲,۷" CMOS Progressive Scan Sensor	سنسور:
۰,۲ lux در حالت رنگی	حداقل روشنایی:
MJPEG و H.۲۶۴	فشرده سازی تصویر:
۲ MP (۱۹۲۰*۱۰۸۰)	اندازه تصویر:
Motorized ۳-۹mm	لنز مگاپیکسل هر سنسور:
نصب روی سقف (Vandal Dome)	نوع نصب:
۳۰ FPS @ ۲MP	سرعت تصویر برداری:
SD/SDHC up to ۶۴GB	حافظه جانبی:
بالاتر از ۶۰dB	گستره داینامیک هر سنسور :
Adaptive IR up to ۳۰m	منبع تامین مادون قرمز:
-۲۰c to +۵۰c	شرایط دمایی قابل تحمل:
حداقل ۳ سال	گارانتی:
Other features	
Bandwidth management topology UL / cUL / CE / ROHS / EN Standards IK۱۰ / IP۶۶ Rating	

مشخصات فنی دوربین L

Indoor use	مکان کاربری
۱/۲,۷" CMOS Progressive Scan Sensor	سنسور:
۰,۲ lux در حالت رنگی	حداقل روشنایی:
MJPEG و H.۲۶۴	فشرده سازی تصویر:
۲ MP (۱۹۲۰*۱۰۸۰)	اندازه تصویر:
Motorized ۳-۹mm	لنز مگاپیکسل هر سنسور:
نصب روی سقف (Plastic Dome)	نوع نصب:
۳۰ FPS @ ۲MP	سرعت تصویر برداری:
SD/SDHC up to ۶۴GB	حافظه جانبی:
۶۰dB بالاتر از	گستره داینامیک هر سنسور:
-----	منبع تامین مادون قرمز:
-۲۰c to +۵۰c	شرایط دمایی قابل تحمل:
حداقل ۳ سال	گارانتی:
Other features	
Bandwidth management topology UL / cUL / CE / ROHS / EN Standards IK۱۰ / IP۶۶ Rating	

مشخصات فنی دوربین K

Indoor use (Vandal)	مکان کاربری
۱/۳,۶" CMOS Progressive Scan Sensor	سنسور:
۰,۶ lux در حالت رنگی	حداقل روشنایی:
MJPEG و H.۲۶۴	فشرده سازی تصویر:
۱ MP (۱۲۸۰*۷۲۰)	اندازه تصویر:
Fixed ۲,۸mm	لنز مگاپیکسل هر سنسور:
نصب روی سقف (Vandal Dome)	نوع نصب:
۳۰ FPS @ ۱MP	سرعت تصویر برداری:
-----	حافظه جانبی:
۷۰dB بالاتر از	گستره داینامیک هر سنسور:
-----	پردازش هوشمند تصاویر:
-۲۰c to +۵۰c	شرایط دمایی قابل تحمل:
حداقل ۳ سال	گارانتی:
Other features	
Bandwidth management topology UL / cUL / CE / ROHS / EN Standards IK۱۰ / IP۶۶ Rating	

مشخصات فنی سیستم ذخیره ساز NVR

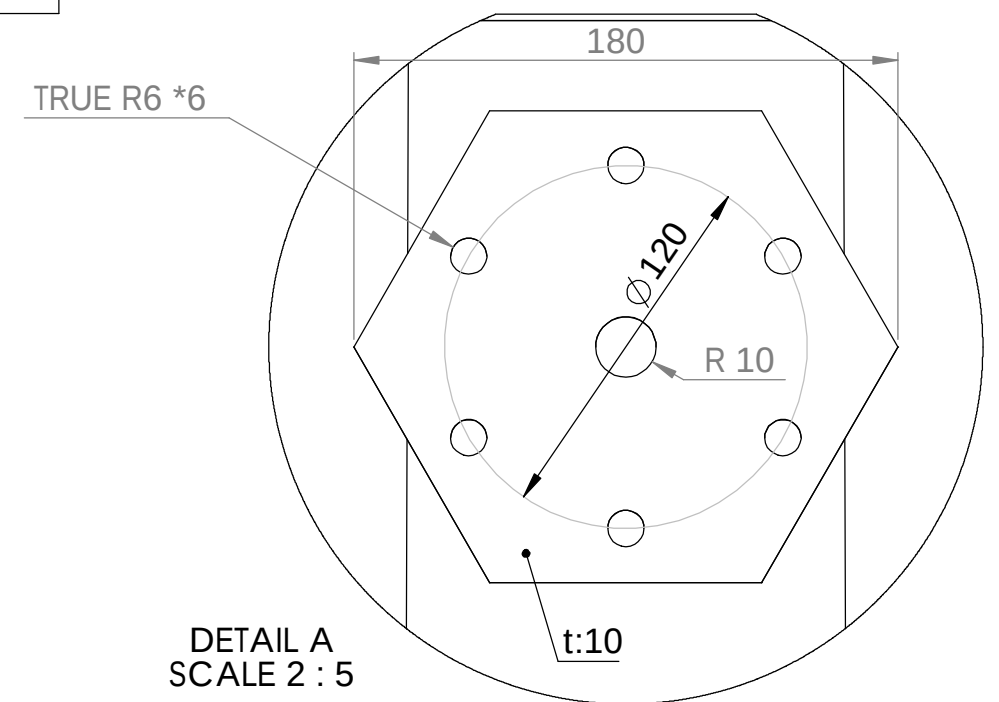
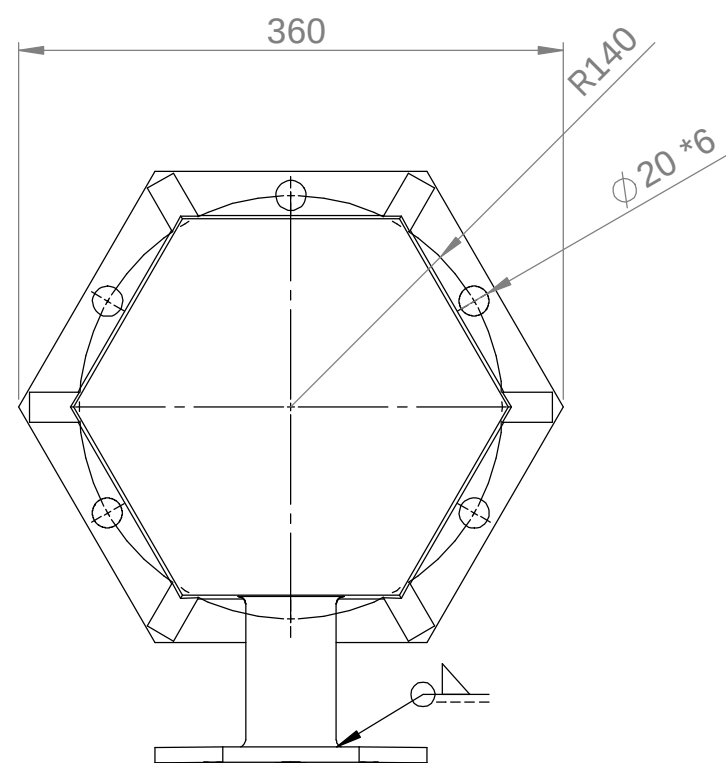
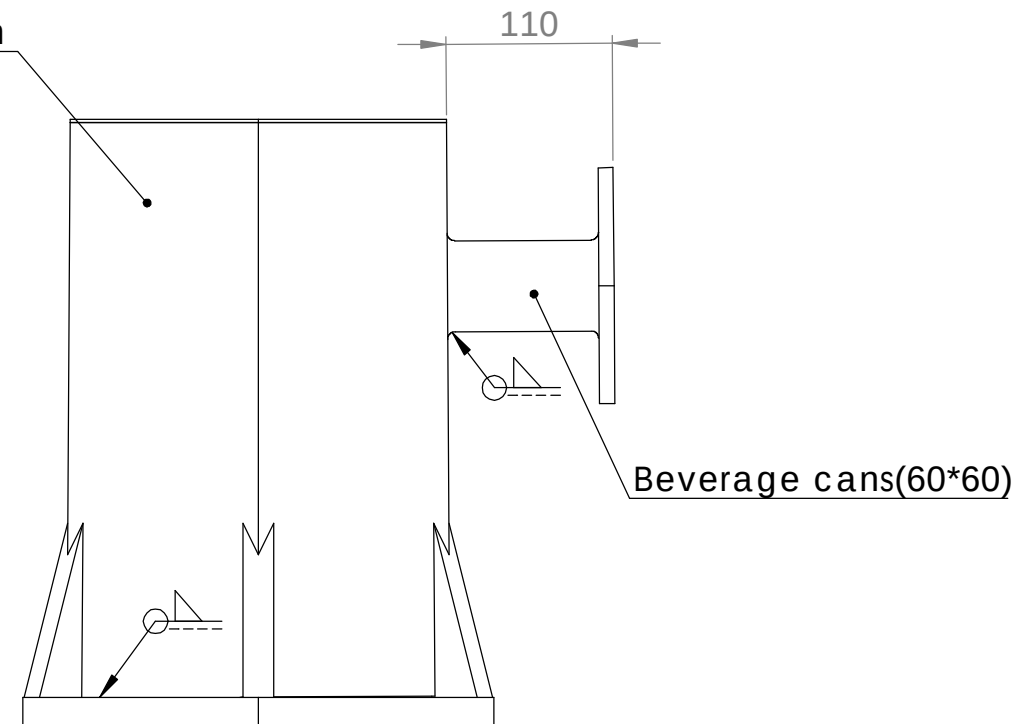
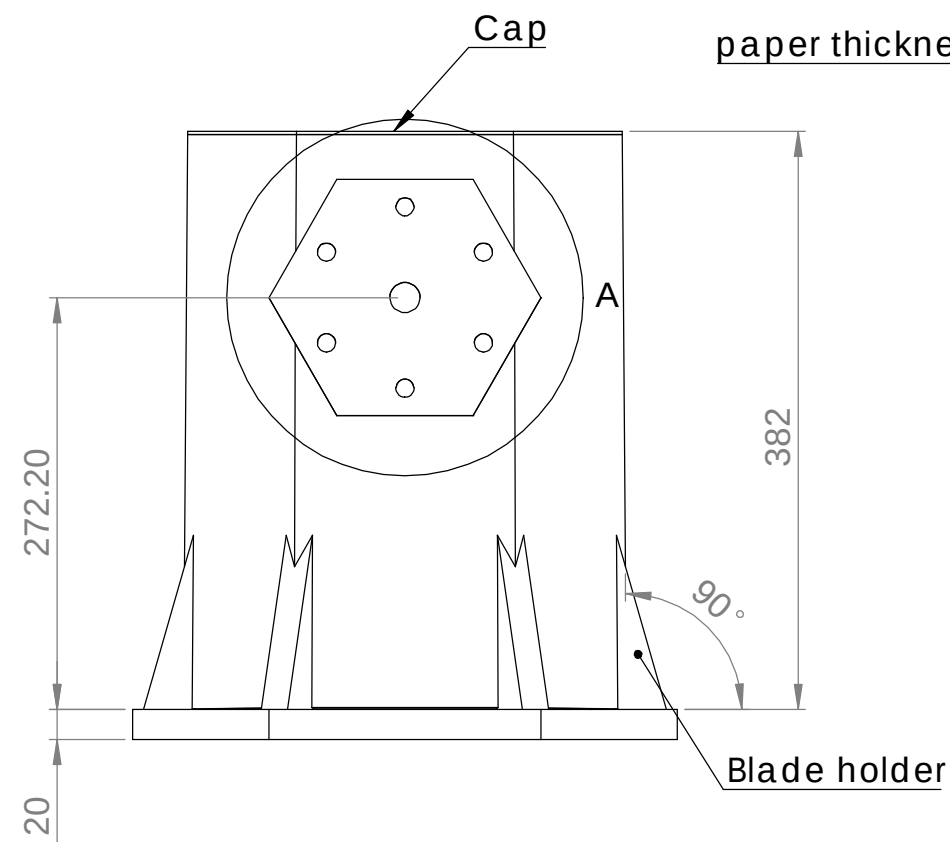
Indoor use	مکان کاربری
Intel Xeon Processor	پردازشگر:
۱۶ GB	حافظه جانبی:
حداقل ۱۰۰ دوربین ۲ مگاپیکسل	تعداد دوربین :
۹۰۰ Mb/s	Network Throughput:
۲۴ TB of ۷/۲۴ Surveillance optimized Hard disk	حافظه سخت:
Integrated Quad Port Gigabit Server Adapter	ورودی شبکه:
حداقل ۳ سال	

تبصره: بواسطه حفظ یکپارچگی سیستم ، فقط سیستم های ذخیره ساز تولیدی شرکت سازنده دوربین ها مورد تایید میباشند

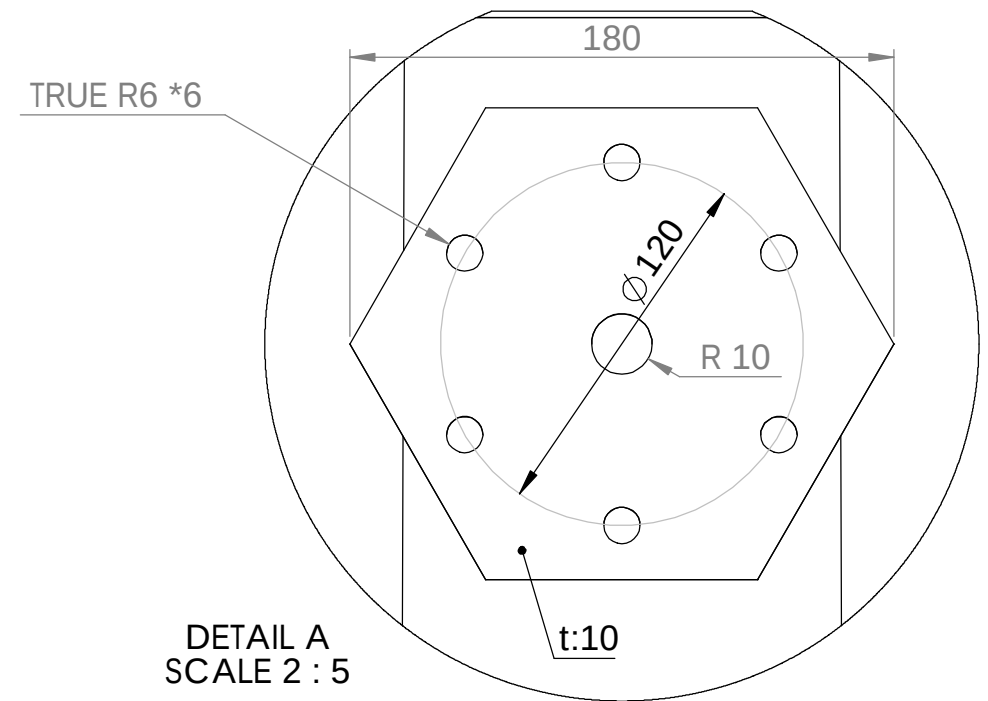
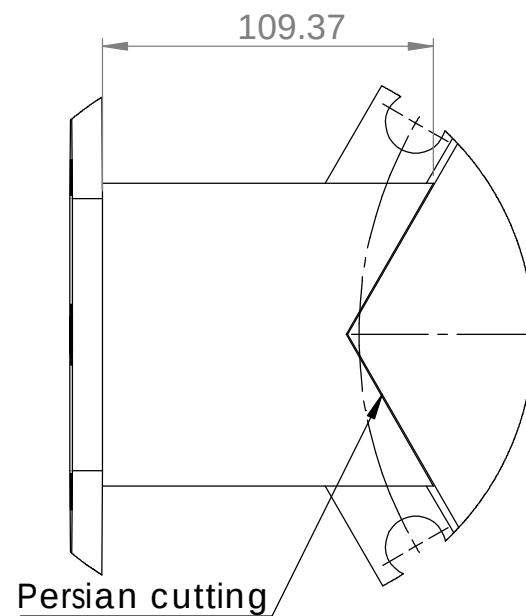
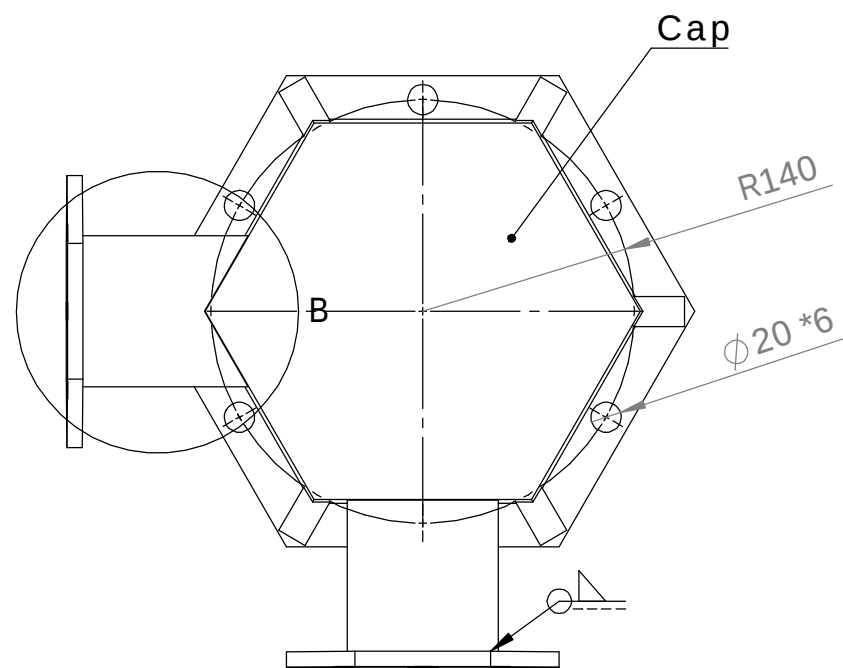
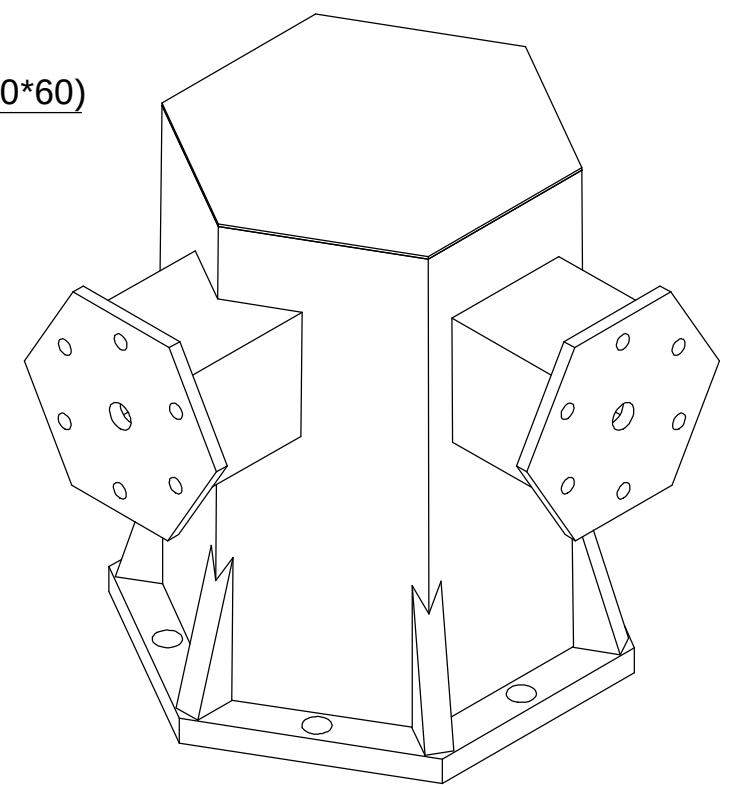
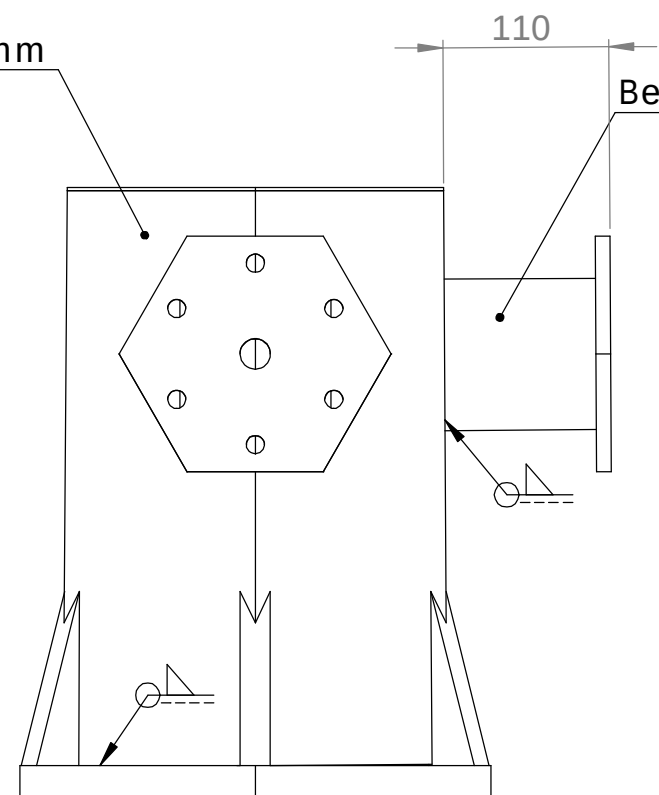
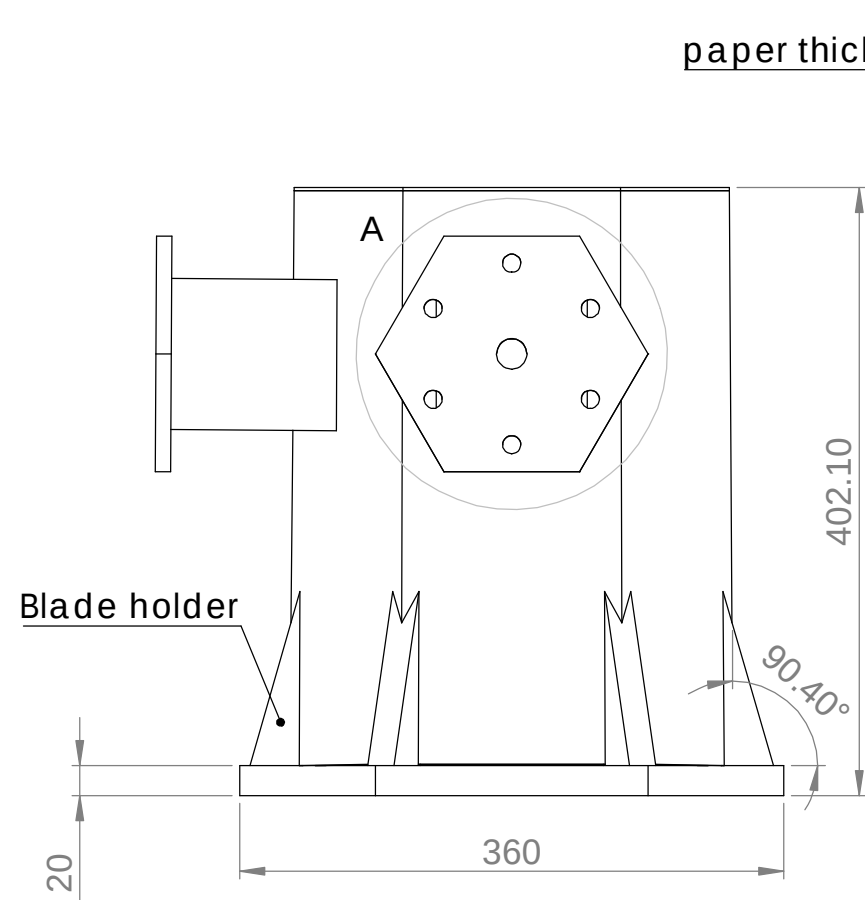
Indoor use	مکان کاربری
۱/۳,۶" CMOS Progressive Scan Sensor	سنسور:
۰,۶ lux در حالت رنگی	حداقل روشنایی:
MJPEG و H.۲۶۴	فشرده سازی تصویر:
۱ MP (۱۲۸۰*۷۲۰)	اندازه تصویر:
Fixed ۲,۸mm	لنز مگاپیکسل هر سنسور:
نصب درون سقف کاذب (In-Ceiling Dome)	نوع نصب:
۳۰ FPS @ ۱MP	سرعت تصویر برداری:
-----	حافظه جانبی:
بالتر از ۷۰dB	گستره داینامیک هر سنسور :
-----	پردازش هوشمند تصاویر:
-۲۰c to +۵۰c	شرایط دمایی قابل تحمل:
حداقل ۳ سال	گارانتی:
Other features	
Bandwidth management topology	
UL / cUL / CE / ROHS / EN Standards	

Season Eighth - Map of rig construction details

Base mast construction detail map

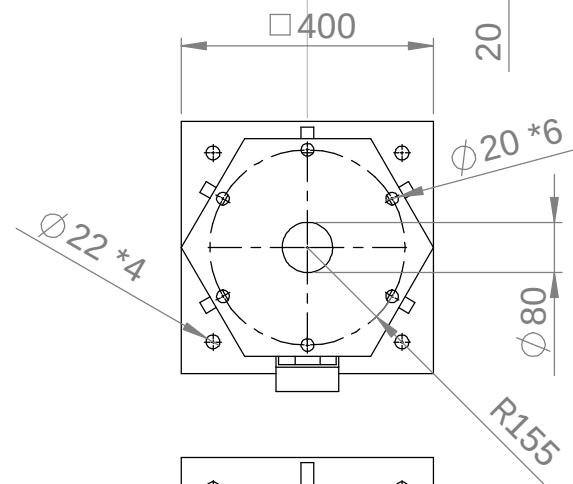
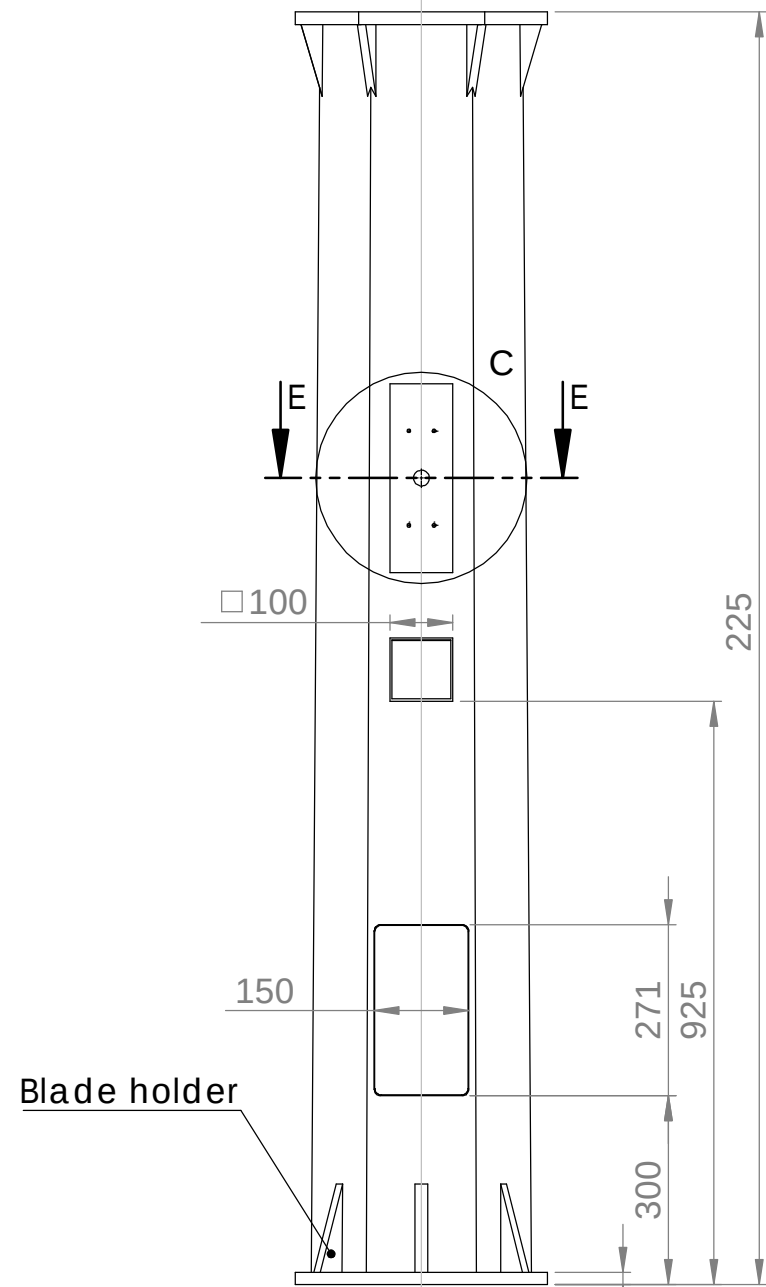


UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:				FINISH:		DEBUR AND BREAK SHARP EDGES		DO NOT SCALE DRAWING		REVISION :00	
	NAME	SIGNATURE	DATE			Uses of Mast M(A-A)-101 M(A-G)-114 M(A-C)-103 M(C-B)-118 M(A-E)-105 M(C-D)-121 M(B-A)-106 M(B-E)-111 M(B-F)-113					
DRAWN	MILAD HAJATI		95/2/1								
DRAWN	AMIR JAMALI		95/2/1								
CHK'D											
APPV'D											
MFG				MATERIAL: ST-37 Galvanizing			DWG NAME. MAST OF 1 Connection				A3
Q.A											
				WEIGHT: 45 kg			SCALE:-				SHEET 1 OF 1

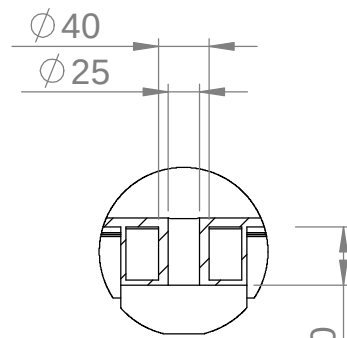
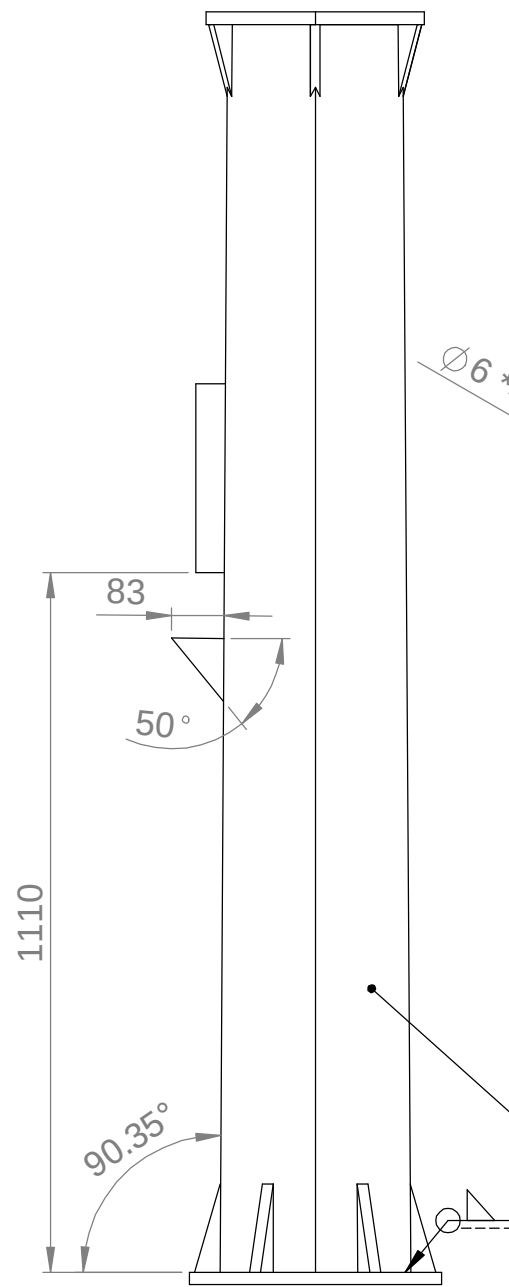


DETAIL B
SCALE 2 : 5

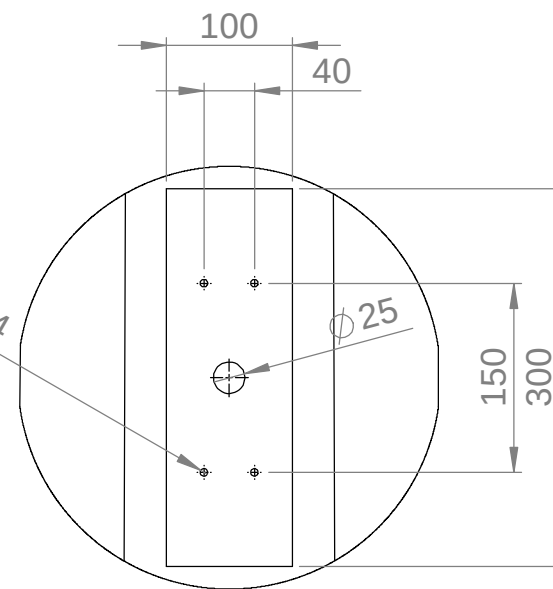
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SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:											
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DRAWN	MILAD HAJATI				95/2/1						
DRAWN	AMIR JAMALI				95/2/1						
CHK'D											
APPV'D											
MFG					MATERIAL: ST-37 Galvanizing		DWG NAME. MAST OF 2 Connection		A3		
Q.A											
						WEIGHT: 50 kg		SCALE:-		SHEET 1 OF 1	



SECTION E-E
SCALE 1 : 12

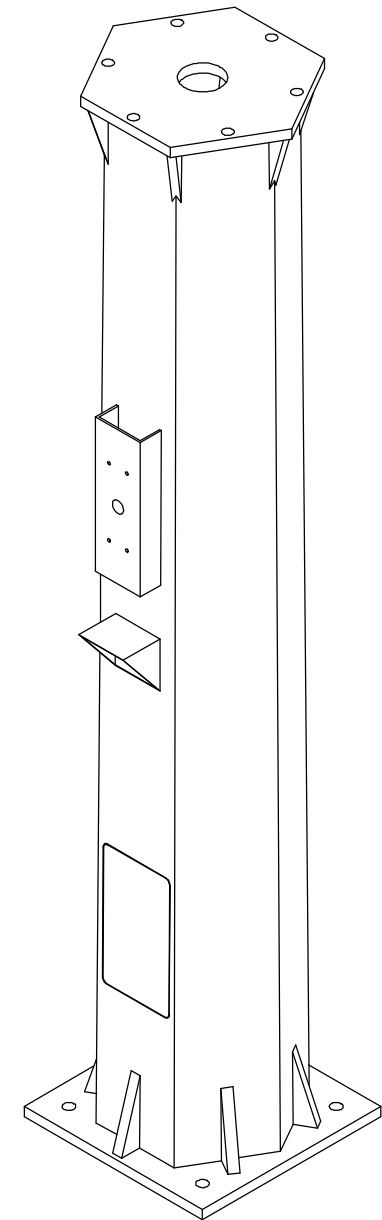


DETAIL G
SCALE 1 : 6

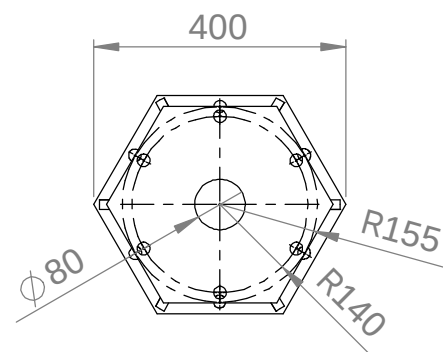
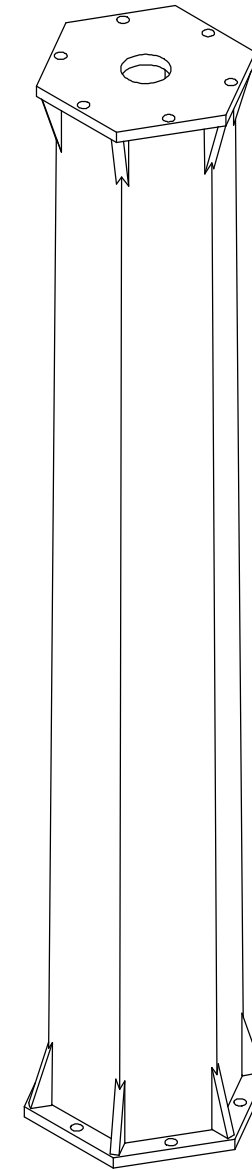
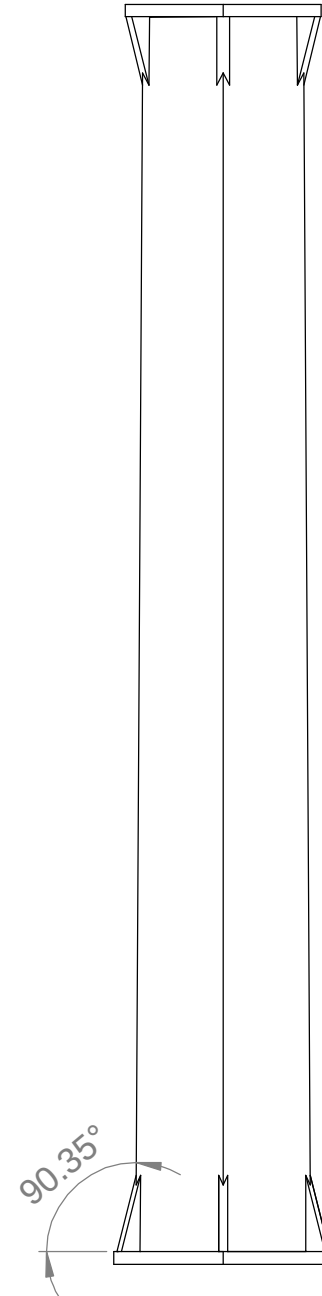
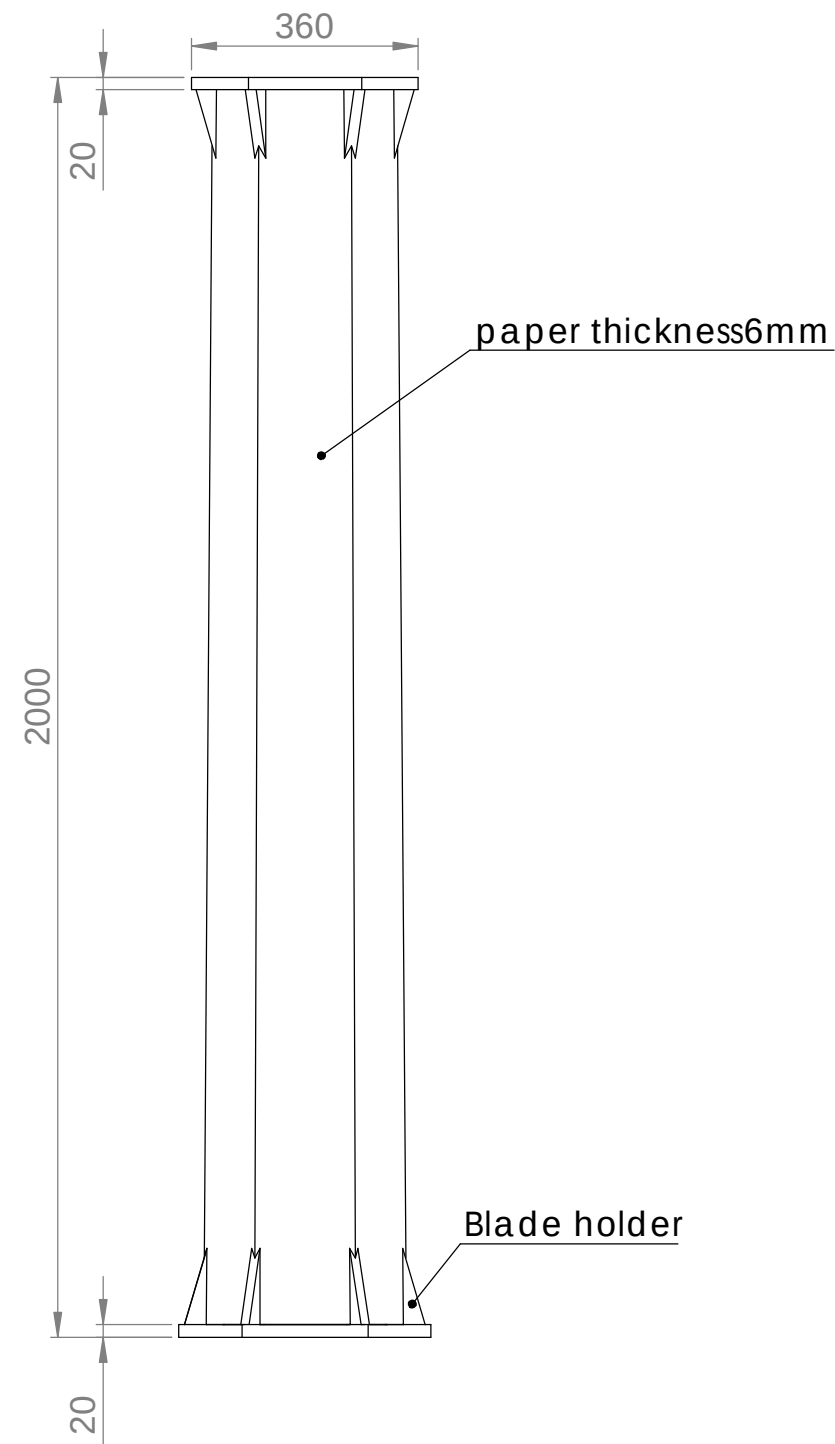


DETAIL C
SCALE 1 : 6

paper thickness:8mm



UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:				FINISH:		DEBUR AND BREAK SHARP EDGES	DO NOT SCALE DRAWING		REVISION :00			
	NAME		SIGNATURE		DATE				Uses of Mast All MAST			
DRAWN	MILAD HAJATI				95/2/1							
DRAWN	AMIR JAMALI				95/2/1							
CHK'D												
APPV'D												
MFG					MATERIAL: ST-37 Galvanizing			DWG NAME. BASE MAST		A3		
Q.A												
					WEIGHT: 137 kg			SCALE:-			SHEET 1 OF 1	



UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:				FINISH:		DEBUR AND BREAK SHARP EDGES		DO NOT SCALE DRAWING		REVISION :00		
	NAME		SIGNATURE		DATE					Uses of Mast All MAST		
DRAWN	MILAD HAJATI				95/2/1							
DRAWN	AMIR JAMALI				95/2/1							
CHK'D												
APPV'D												
MFG							MATERIAL: ST-37 Galvanizing		DWG NAME: Second BASE MAST		A3	
Q.A												
							WEIGHT: 137 kg		SCALE:-		SHEET 1 OF 1	

Technical drawing of a mechanical part, showing front and top views with dimensions.

Front View (Left):

- Overall width: 66.35
- Distance from left edge to centerline: 10
- Overall height: 178
- Distance from bottom edge to centerline: 16.35
- Bottom flange width: 40
- Feature 'C' is indicated by a circle and a leader line.

Top View (Right):

- Overall width: 100
- Distance from left edge to centerline: 51
- Overall height: 200
- Distance from top edge to centerline: 140
- Distance from bottom edge to centerline: 83
- Four mounting holes are shown, each with a diameter of $\varnothing 30$.
- Corner radius: R10

40

Technical drawing of a rectangular plate. The overall width is 100 and the overall height is 200. The plate features a circular hole with a rectangular slot inside it, labeled 'D'. There is also a small rectangular slot at the bottom center.

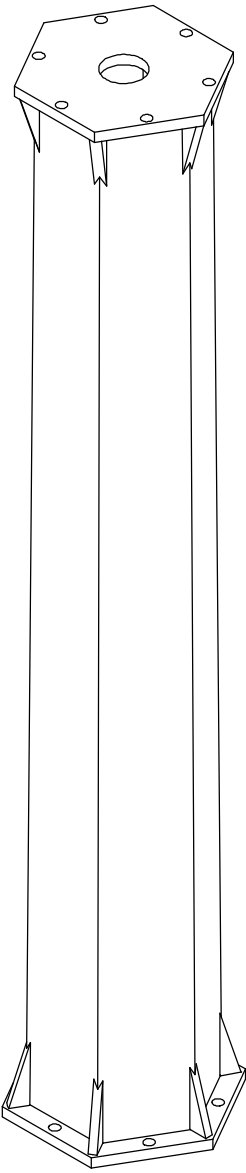
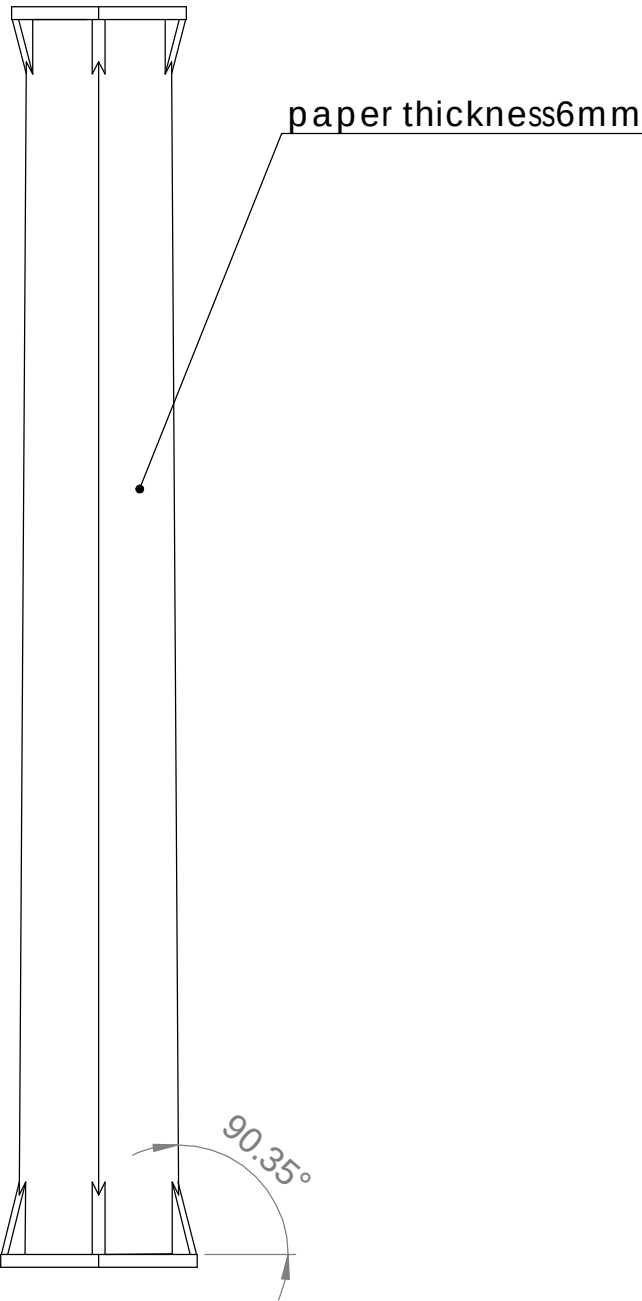
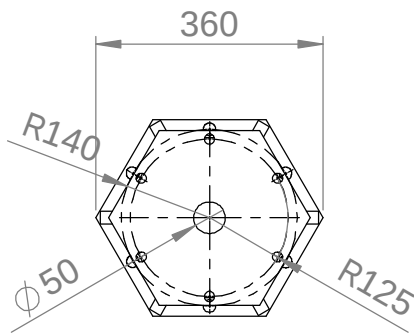
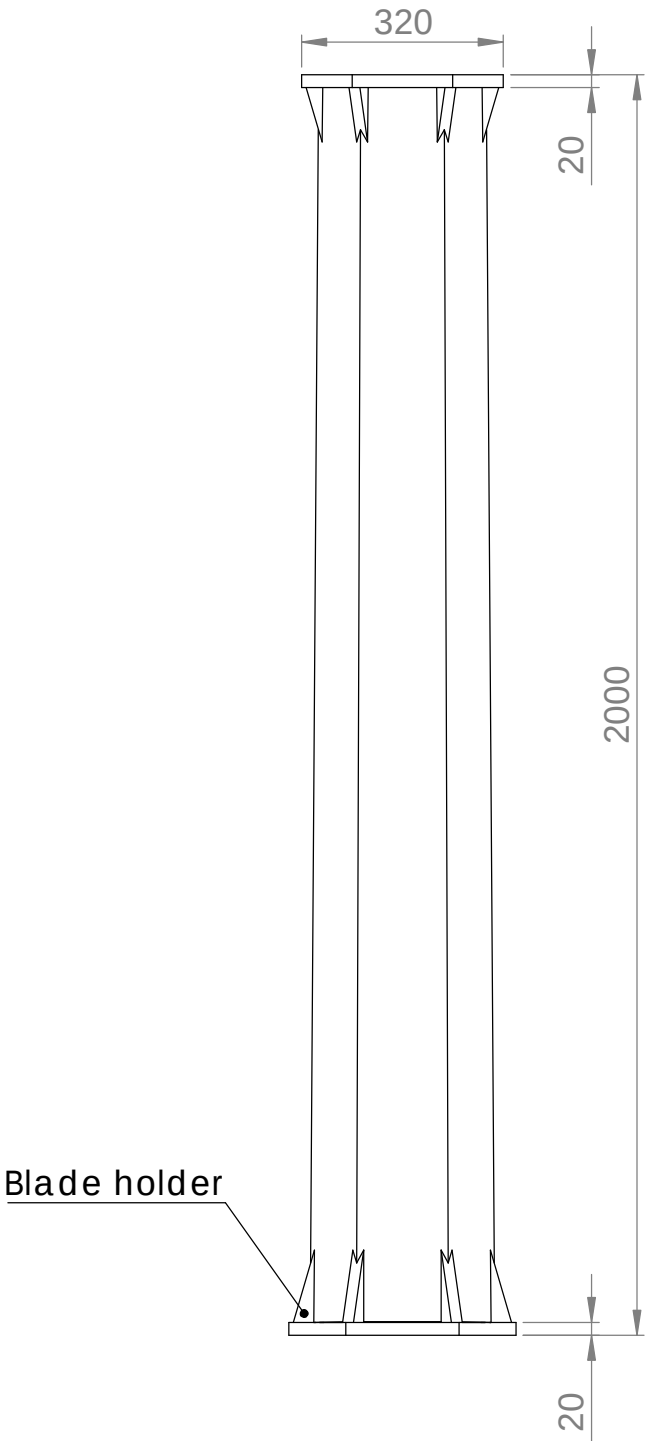
SCALE 1 : 5

Beverage cans(60*60)

Technical drawing of a mechanical part (Fig. 1.10) showing a front view. The part has a central rectangular body with rounded corners (R10) and a central circular hole (Ø30). The overall width is 150, and the overall height is 100. The distance from the top edge to the center of the hole is 60. The distance from the bottom edge to the center of the hole is 100. The distance from the left edge to the center of the hole is 114. The part has a central rectangular cutout with a width of 114 and a height of 100. The cutout has rounded corners (R10) and a central circular hole (Ø30). The distance from the top edge of the cutout to the center of the hole is 60. The distance from the bottom edge of the cutout to the center of the hole is 100. The distance from the left edge of the cutout to the center of the hole is 114. The part has a central rectangular cutout with a width of 114 and a height of 100. The cutout has rounded corners (R10) and a central circular hole (Ø30). The distance from the top edge of the cutout to the center of the hole is 60. The distance from the bottom edge of the cutout to the center of the hole is 100. The distance from the left edge of the cutout to the center of the hole is 114. The part has a central rectangular cutout with a width of 114 and a height of 100. The cutout has rounded corners (R10) and a central circular hole (Ø30). The distance from the top edge of the cutout to the center of the hole is 60. The distance from the bottom edge of the cutout to the center of the hole is 100. The distance from the left edge of the cutout to the center of the hole is 114.

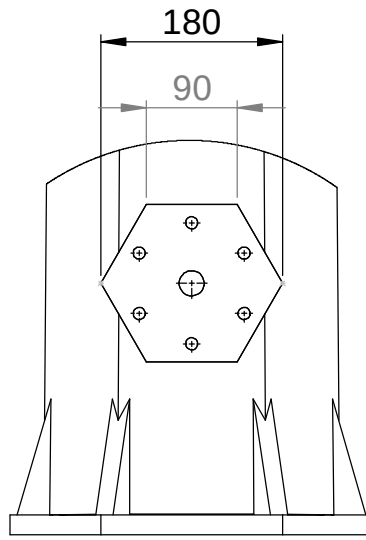
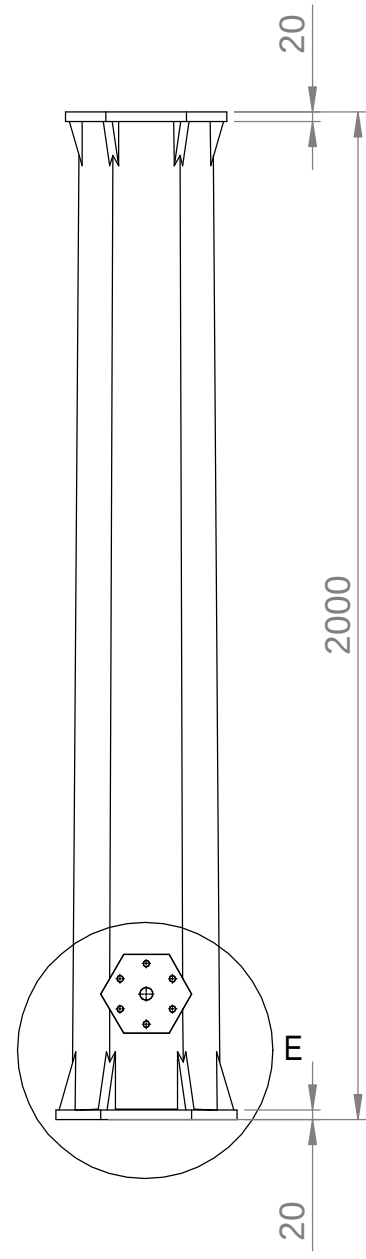
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:				FINISH:		DEBUR AND BREAK SHARP EDGES		DO NOT SCALE DRAWING		REVISION :00	
Uses of Mast ALL MAST Available											
DRAWN	MILAD HAJATI	SIGNATURE	DATE			DWG NO. Connection By Available MUST A3					
DRAWN	AMIR JAMALI		95/2/1								
CHK'D											
APPV'D											
MFG				MATERIAL:			ST-37 Galvanizing				
Q.A											
				WEIGHT: 4kg			SCALE:-		SHEET 1 OF 1		

6 meter mast construction detail map

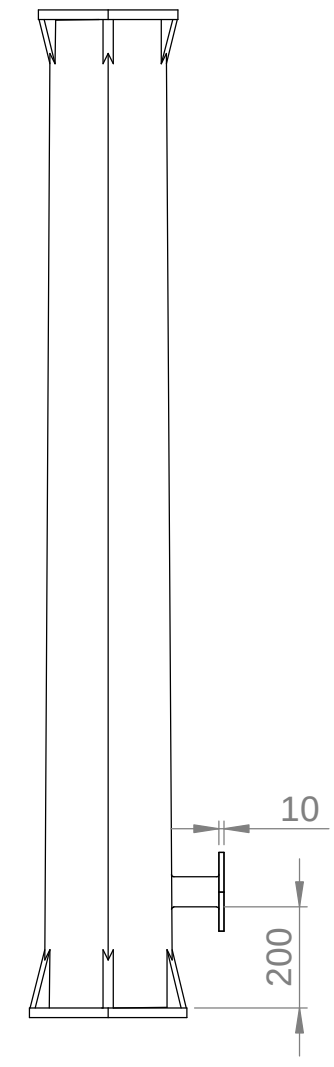


UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:				FINISH:		DEBUR AND BREAK SHARP EDGES	DO NOT SCALE DRAWING	REVISION :00
	NAME	SIGNATURE	DATE				Uses of Mast All MAST	
DRAWN	MILAD HAJATI		95/2/1					
DRAWN	AMIR JAMALI		95/2/1					
CHK'D								
APPV'D								
MFG				MATERIAL: ST-37 Galvanizing		DWG NAME.	Third BASE MAST	
Q.A								
				WEIGHT: 137 kg		SCALE:-	SHEET 1 OF 1	

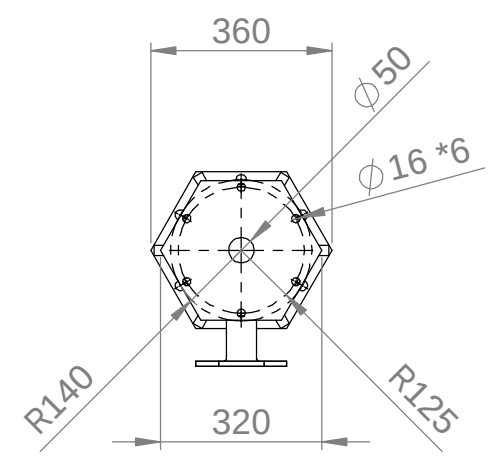
10 meter mast construction detail map



DETAIL E
SCALE 2 : 15

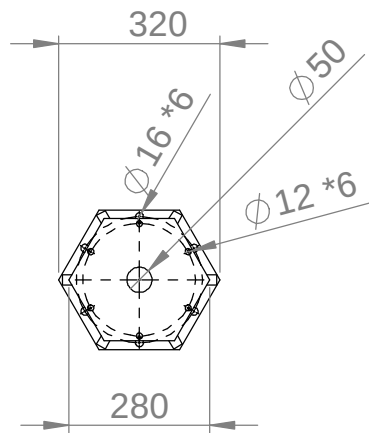
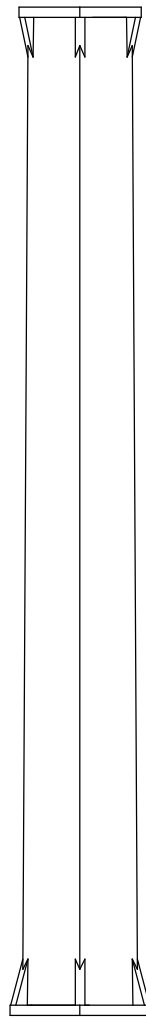
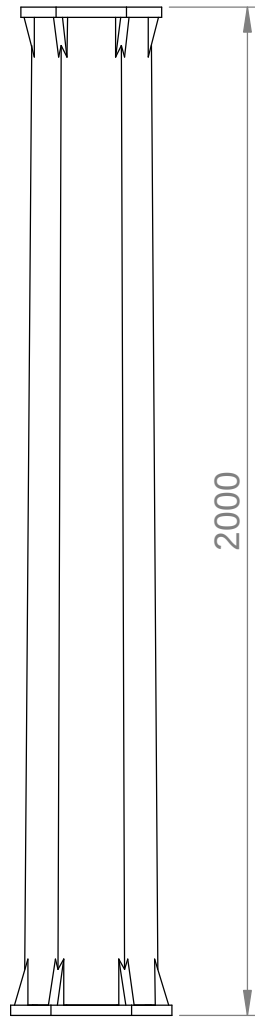


SCALE 1 : 15

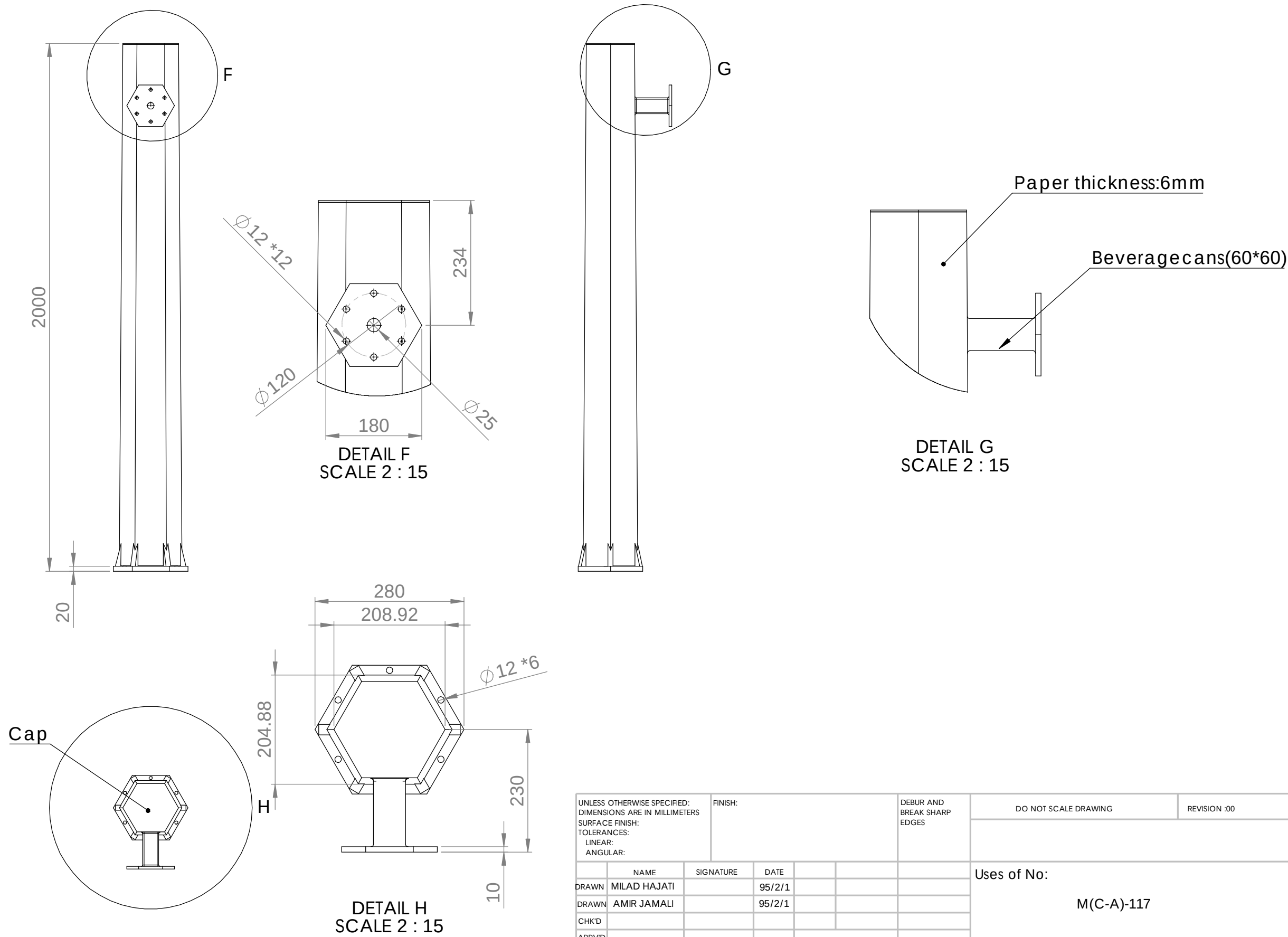


SCALE 1 : 15

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:				FINISH:		DEBUR AND BREAK SHARP EDGES	DO NOT SCALE DRAWING	REVISION :00
	NAME	SIGNATURE	DATE				Uses of No: M(C-A)-117	
DRAWN	MILAD HAJATI		95/2/1					
DRAWN	AMIR JAMALI		95/2/1					
CHK'D								
APPV'D								
MFG				MATERIAL: ST-37 Galvanizing		DWG NO.	MAST 10M	
Q.A								
				WEIGHT: 17kg		SCALE:-	SHEET 1 OF 1	

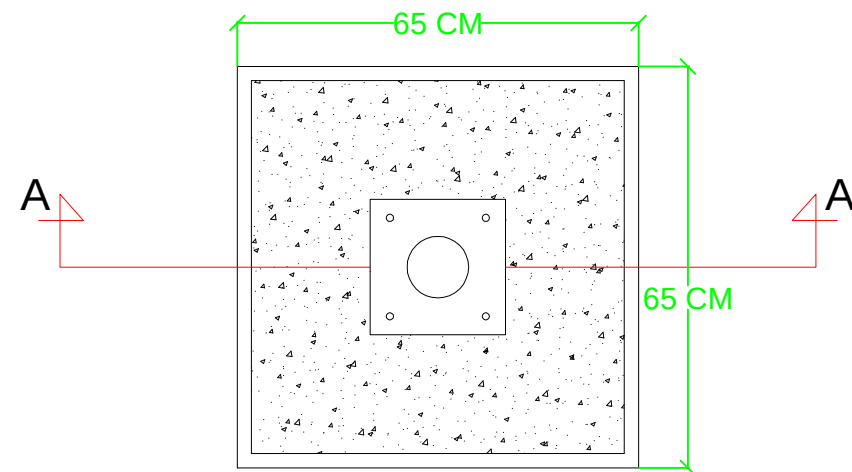


UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:				FINISH:		DEBUR AND BREAK SHARP EDGES	DO NOT SCALE DRAWING		REVISION :00	
	NAME		SIGNATURE		DATE				Uses of No: M(C-A)-117	
DRAWN	MILAD HAJATI				95/2/1					
DRAWN	AMIR JAMALI				95/2/1					
CHK'D										
APPV'D										
MFG					MATERIAL: ST-37 Galvanizing		DWG NO. MAST 10M		A3	
Q.A										
					WEIGHT:100kg		SCALE:-		SHEET 1 OF 1	

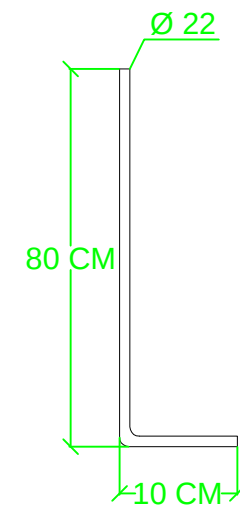


UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:				FINISH:		DEBUR AND BREAK SHARP EDGES	DO NOT SCALE DRAWING		REVISION :00		
	NAME		SIGNATURE		DATE			Uses of No: M(C-A)-117			
DRAWN	MILAD HAJATI				95/2/1						
DRAWN	AMIR JAMALI				95/2/1						
CHK'D											
APPV'D											
MFG					MATERIAL: ST-37 Galvanizing			DWG NO. MAST 10M			A3
Q.A											
					WEIGHT:100kg			SCALE:-		SHEET 1 OF 1	

mast foundation construction detail map

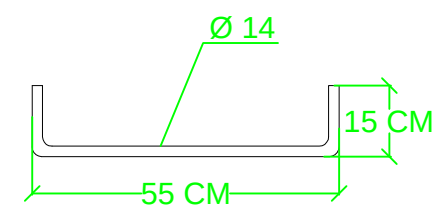


Foundation plan

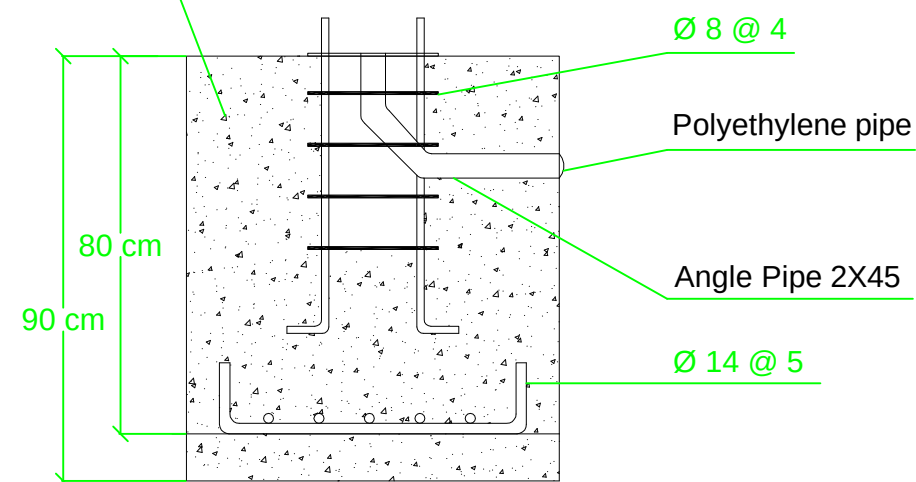


Anchor Bolt

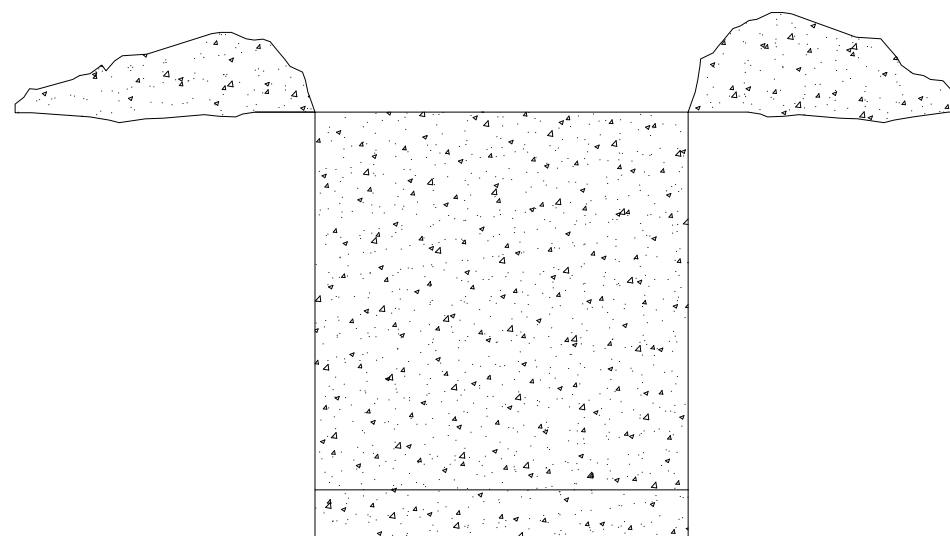
N = 4



Reinforced Con
350 kg / m3



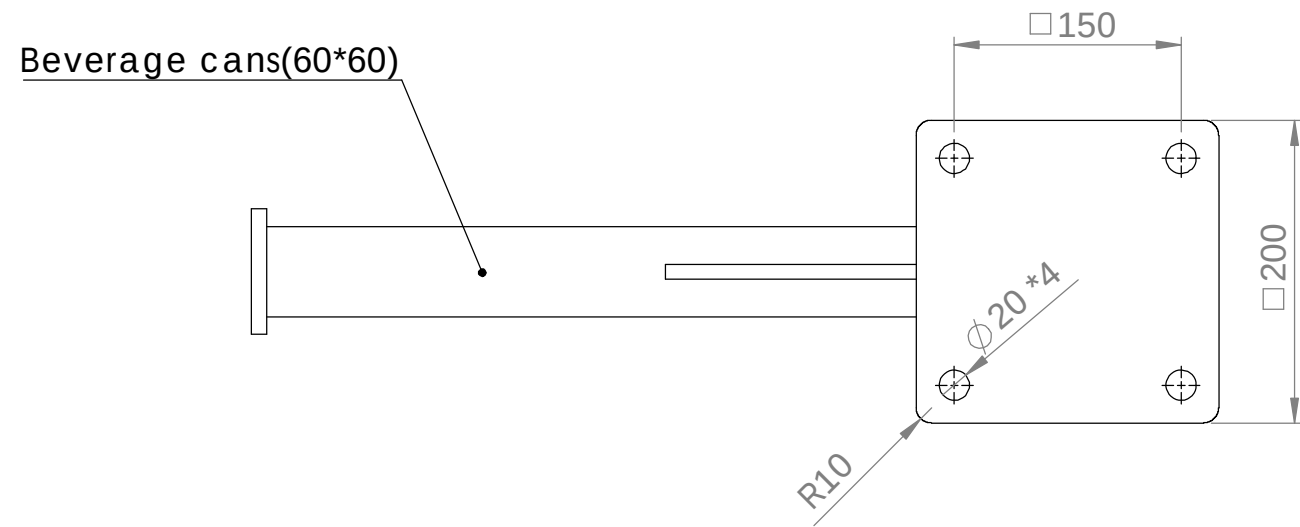
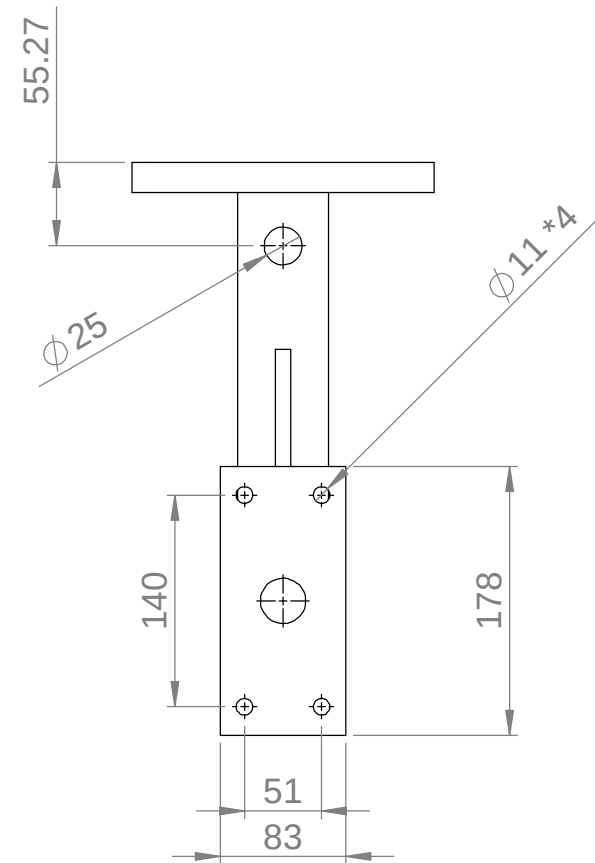
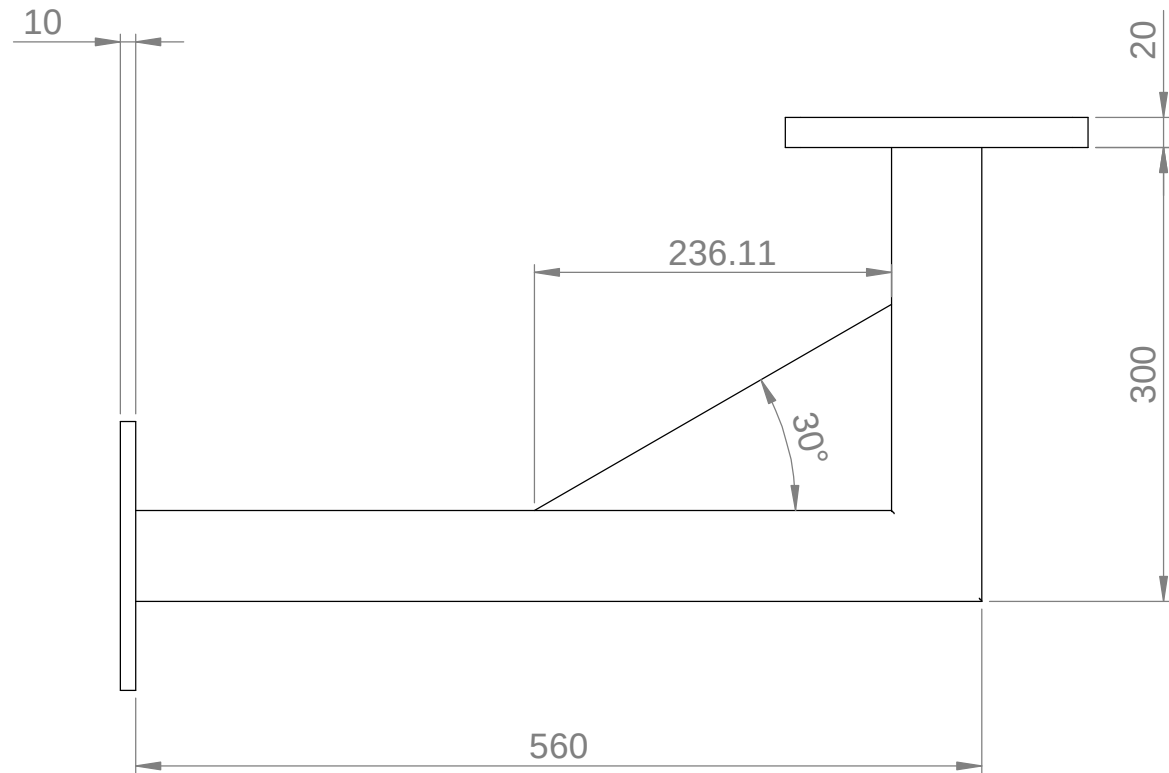
Section A-A



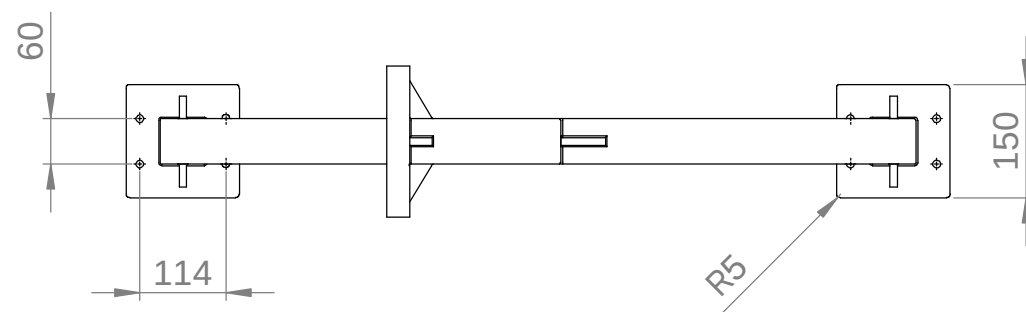
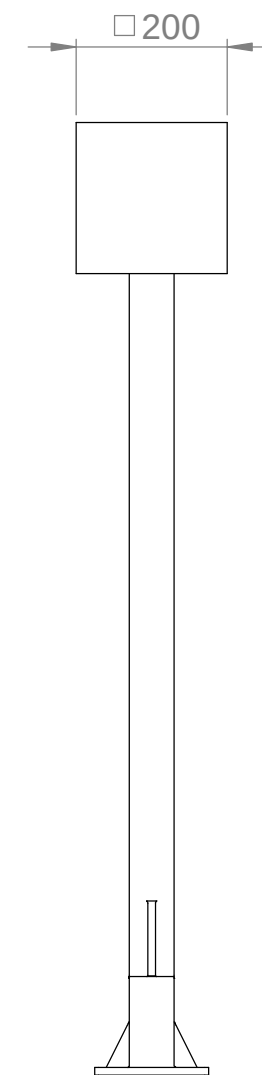
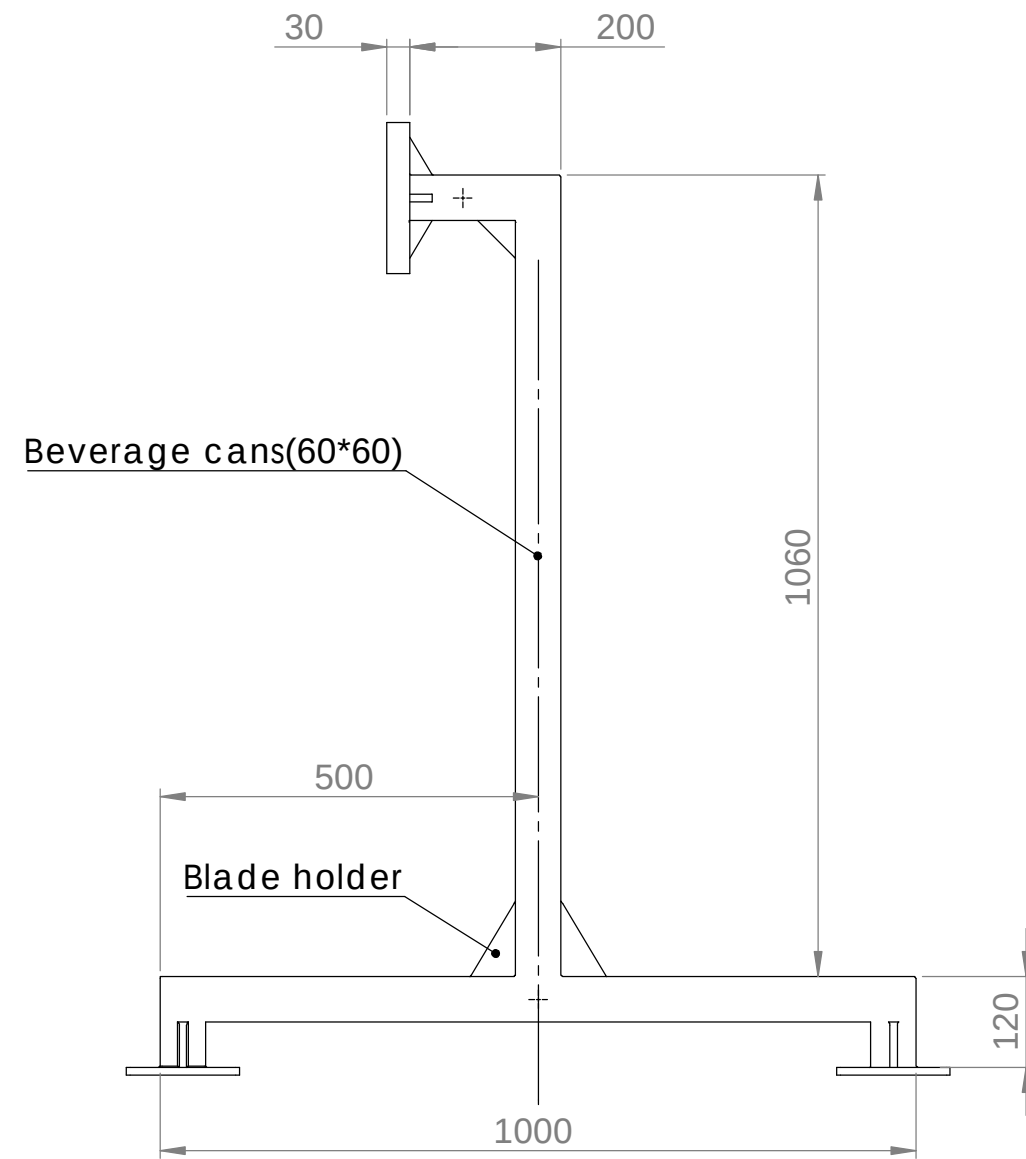
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Title:		Map Location Equipment	
Place:		All Mast	
Plan Number:		Jey Oil_fun_p_950301_00	
Employer:	Consultant:	Designer:	
			
Scale: Non	Detail Designer ☐	Deneral Designer ☒	Page:1 Of: 1

Internal Visit			
Amir Jamali	Milad Hajati	Behzad Farahani	95/03/01
Producer	Producer	Seconder	Date

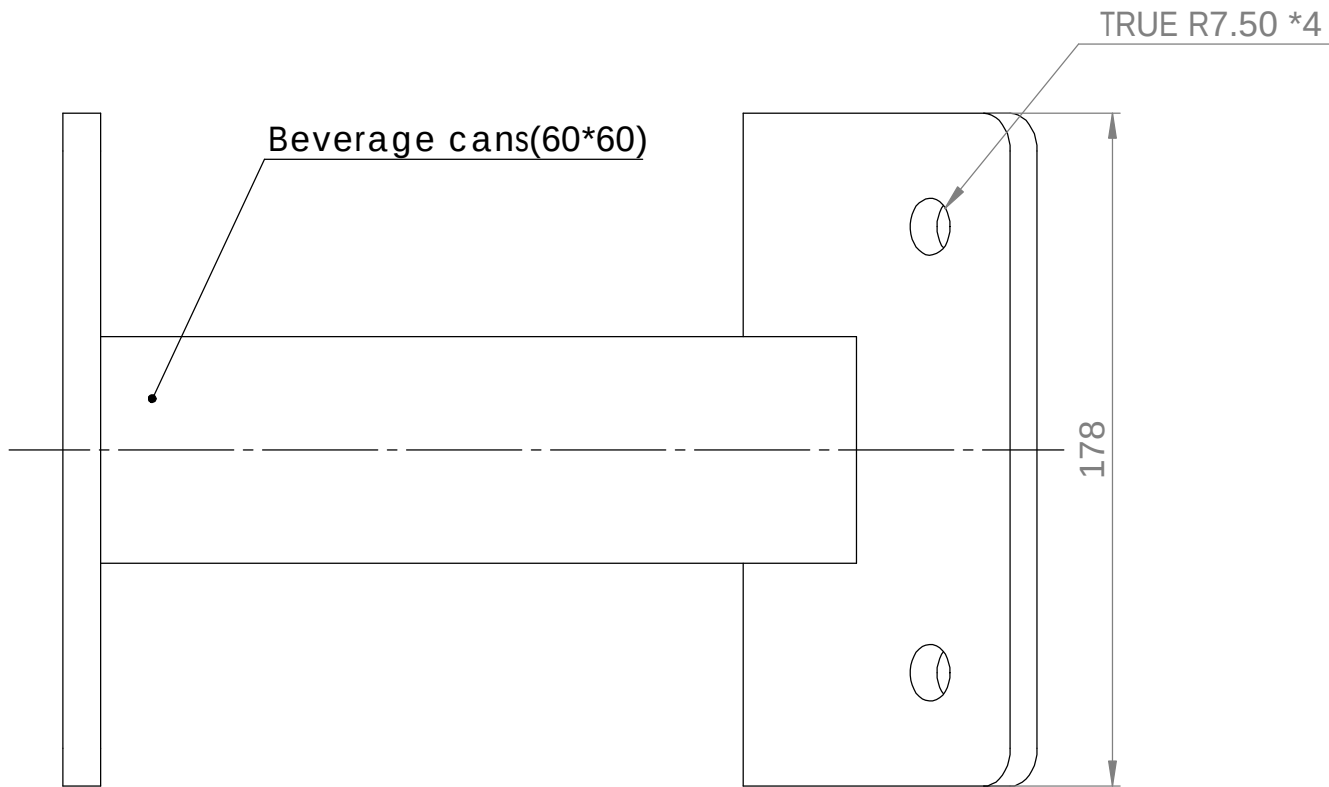
Season Nineth- making picket detail map



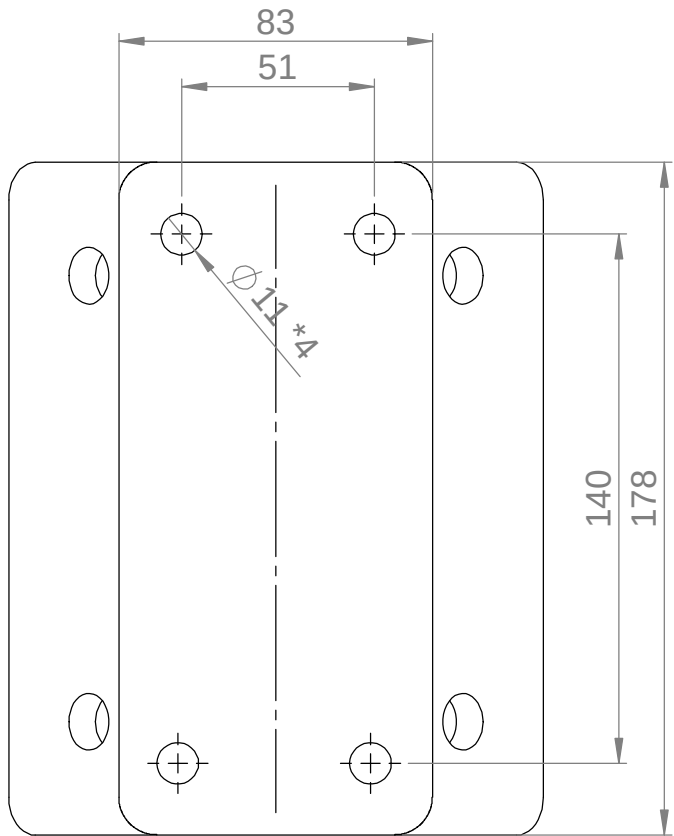
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:				FINISH:		DEBUR AND BREAK SHARP EDGES		DO NOT SCALE DRAWING		REVISION :00	
	NAME		SIGNATURE		DATE				Uses of No: S(A-A)-101		
DRAWN	MILAD HAJATI				95/2/1						
DRAWN	AMIR JAMALI				95/2/1						
CHK'D											
APPV'D											
MFG							MATERIAL: ST-37 Galvanizing		DWG NO. PICKET		A3
Q.A											
							WEIGHT: 14kg		SCALE:-		SHEET 1 OF 1



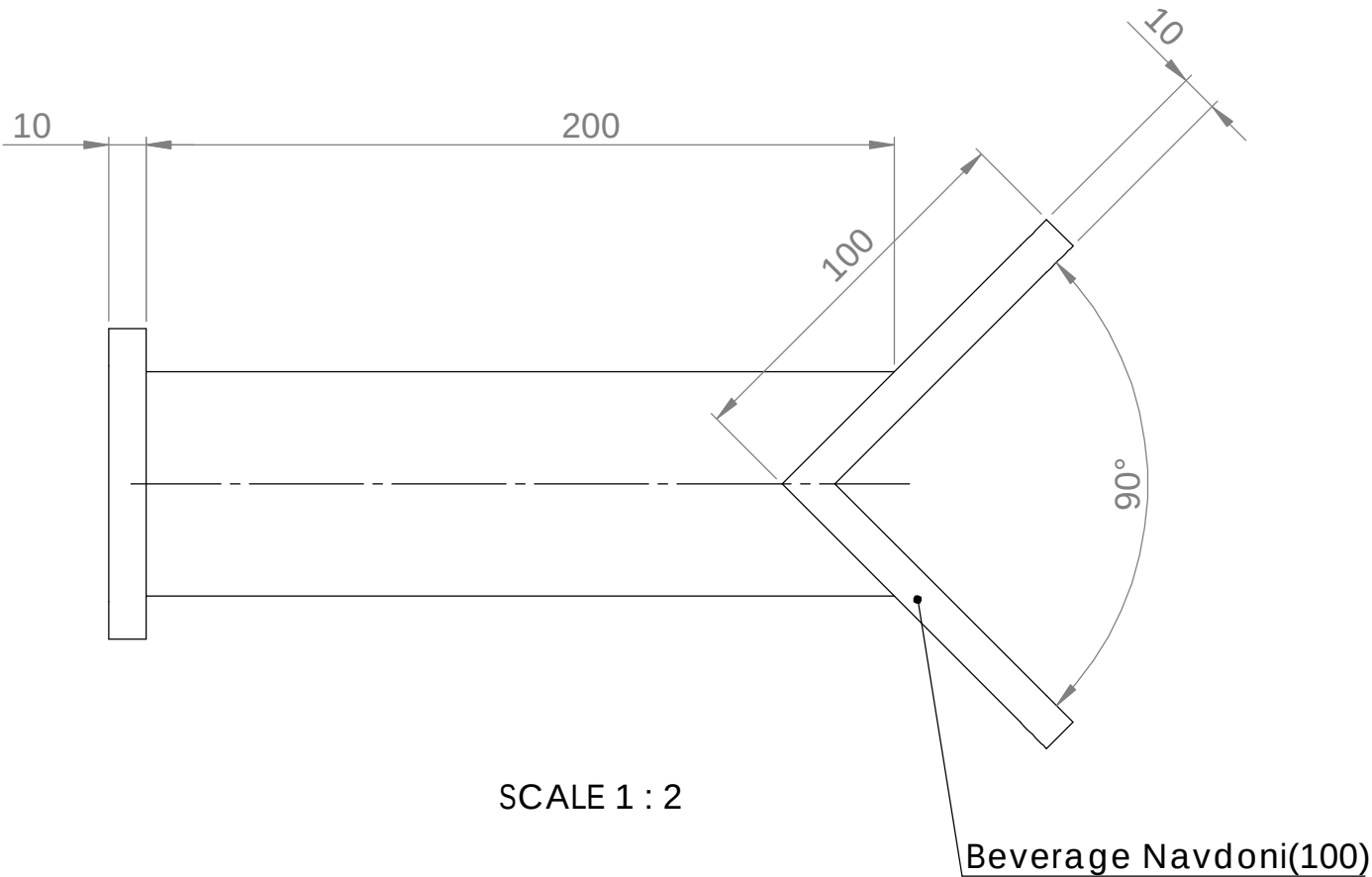
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	NAME	SIGNATURE	DATE				Uses of No: S(A-A)-113-114	
DRAWN	MILAD HAJATI		95/2/1					
DRAWN	AMIR JAMALI		95/2/1					
CHK'D								
APPV'D							DWG NO. PICKET	
MFG								
Q.A							SCALE:-	
						WEIGHT: 14kg	SHEET 1 OF 1	



SCALE 1 : 2

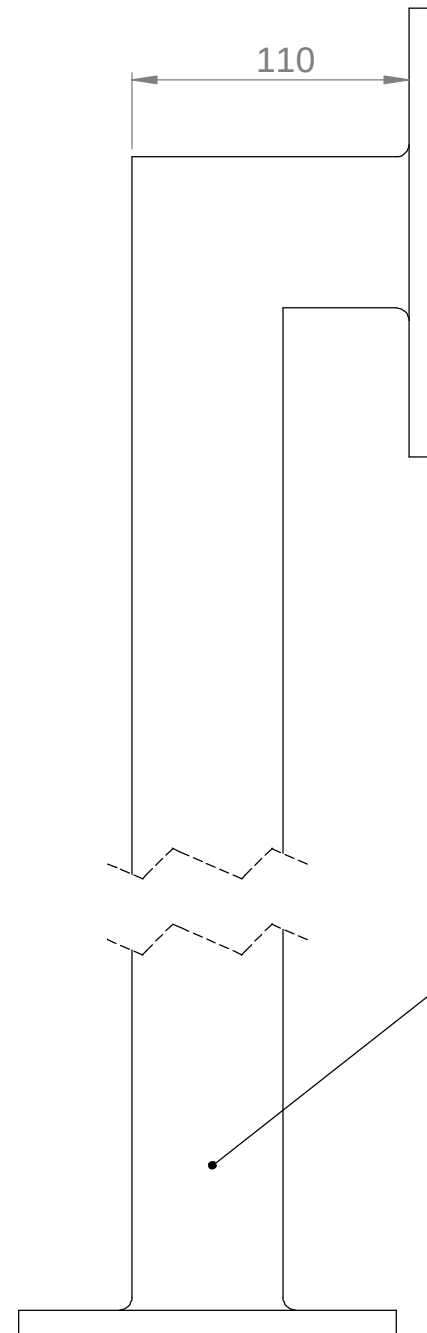
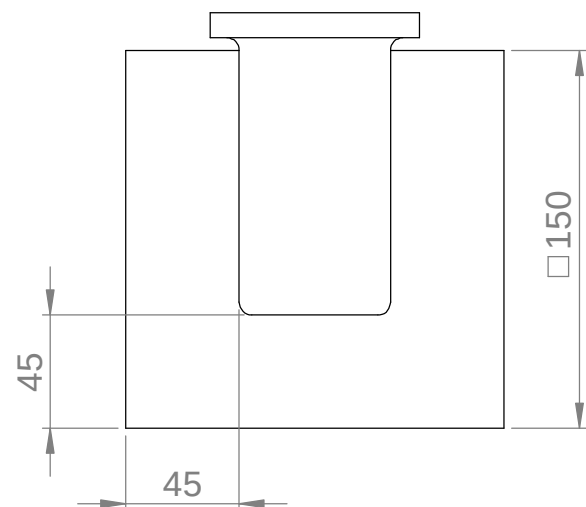
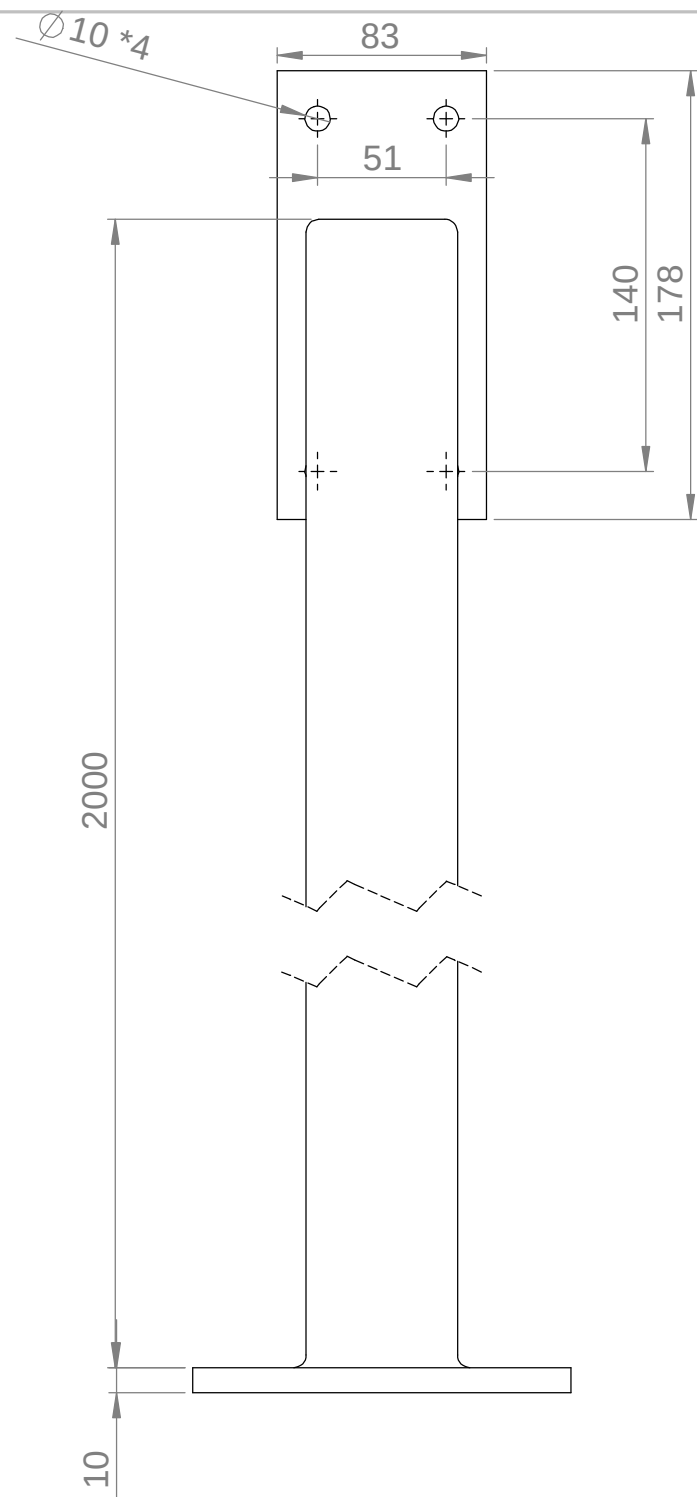


SCALE 1 : 2

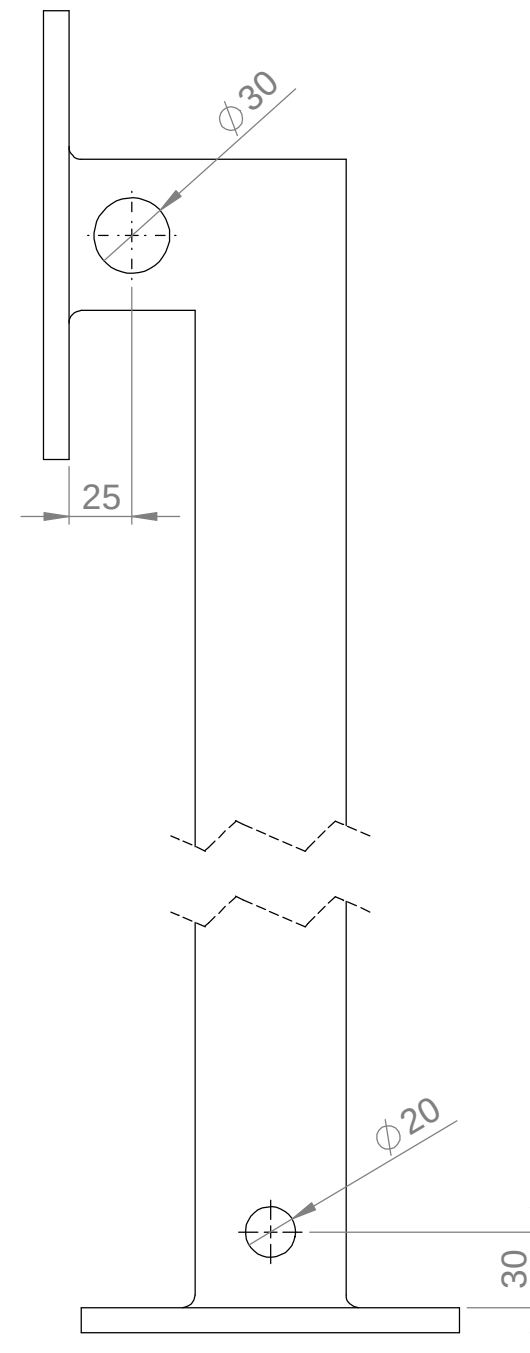


SCALE 1 : 2

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:				FINISH:		DEBUR AND BREAK SHARP EDGES		DO NOT SCALE DRAWING		REVISION :00	



Beverage cans(60*60)



SCALE 1 : 3

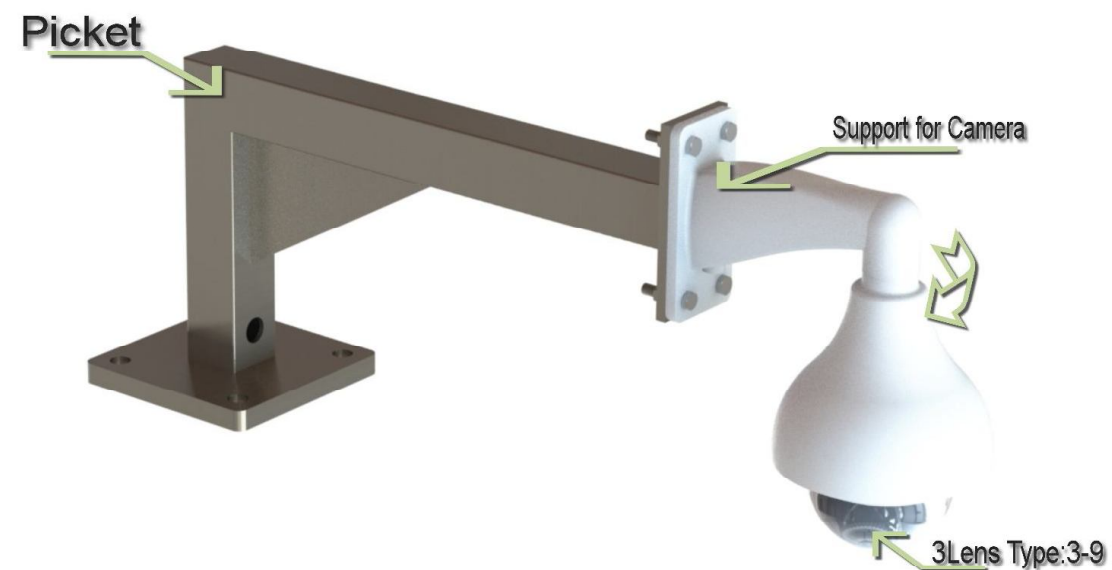
186

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:				FINISH:				DEBUR AND BREAK SHARP EDGES				DO NOT SCALE DRAWING				REVISION :00						
	NAME		SIGNATURE		DATE					Uses of No: S(B-H)-136												
DRAWN	MILAD HAJATI				95/2/1																	
DRAWN	AMIR JAMALI				95/2/1																	
CHK'D																						
APPV'D																						
MFG							MATERIAL: ST-37 Galvanizing				DWG NO.								A3			
Q.A											PICKET											
							WEIGHT: 2kg				SCALE:-								SHEET 1 OF 1			

A3

Season Tenth- Installation

Jey Oil Refining Company



Cam No:101

Part Name:

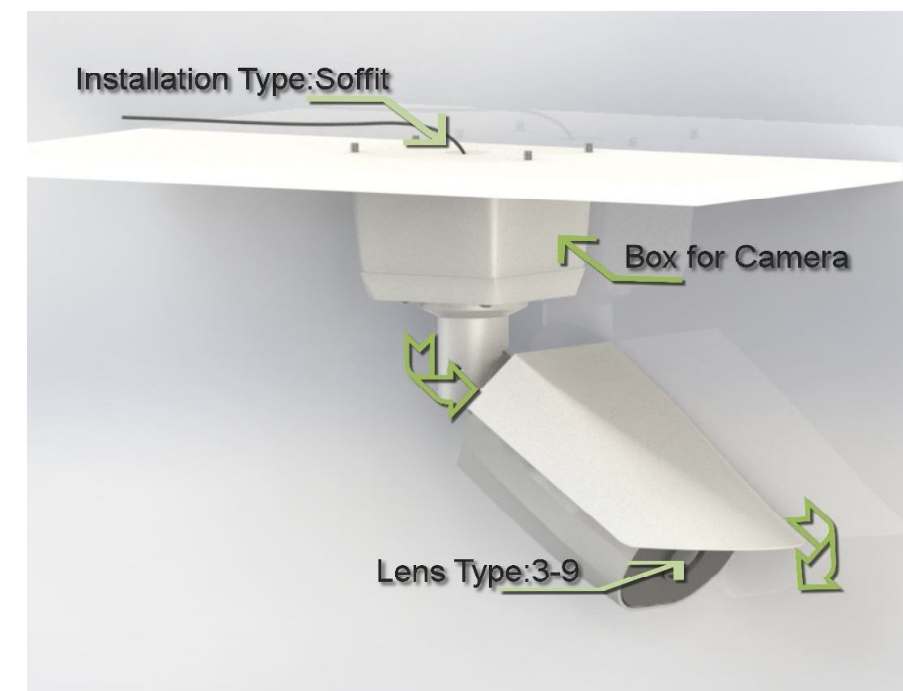
Position: (A-A)

Mask: -

Support: S(A-A) No:101

Description:

Jey Oil Refining Company



Cam No:102

Part Name:

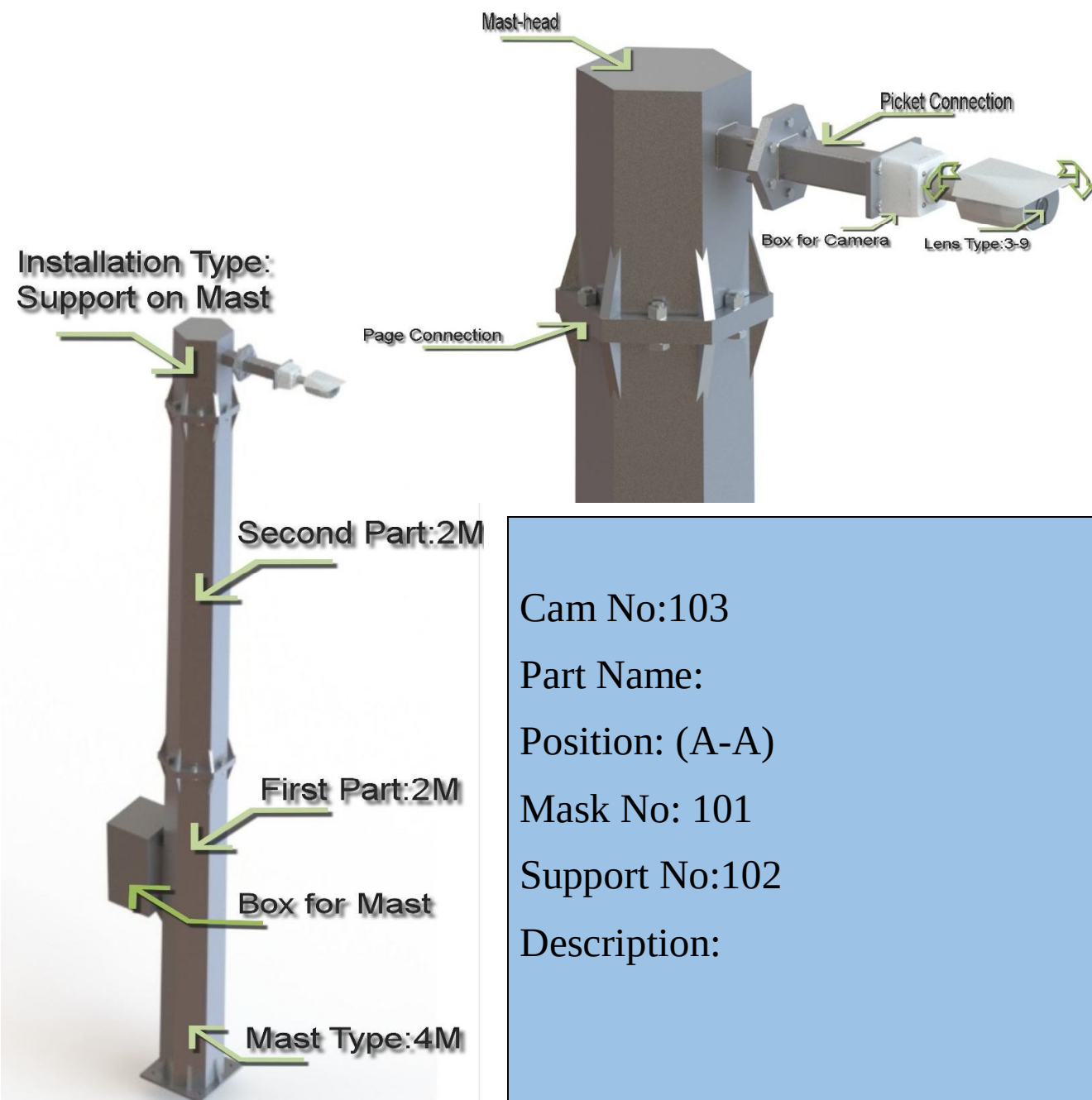
Position: (A-A)

Mask No:-

Support No: -

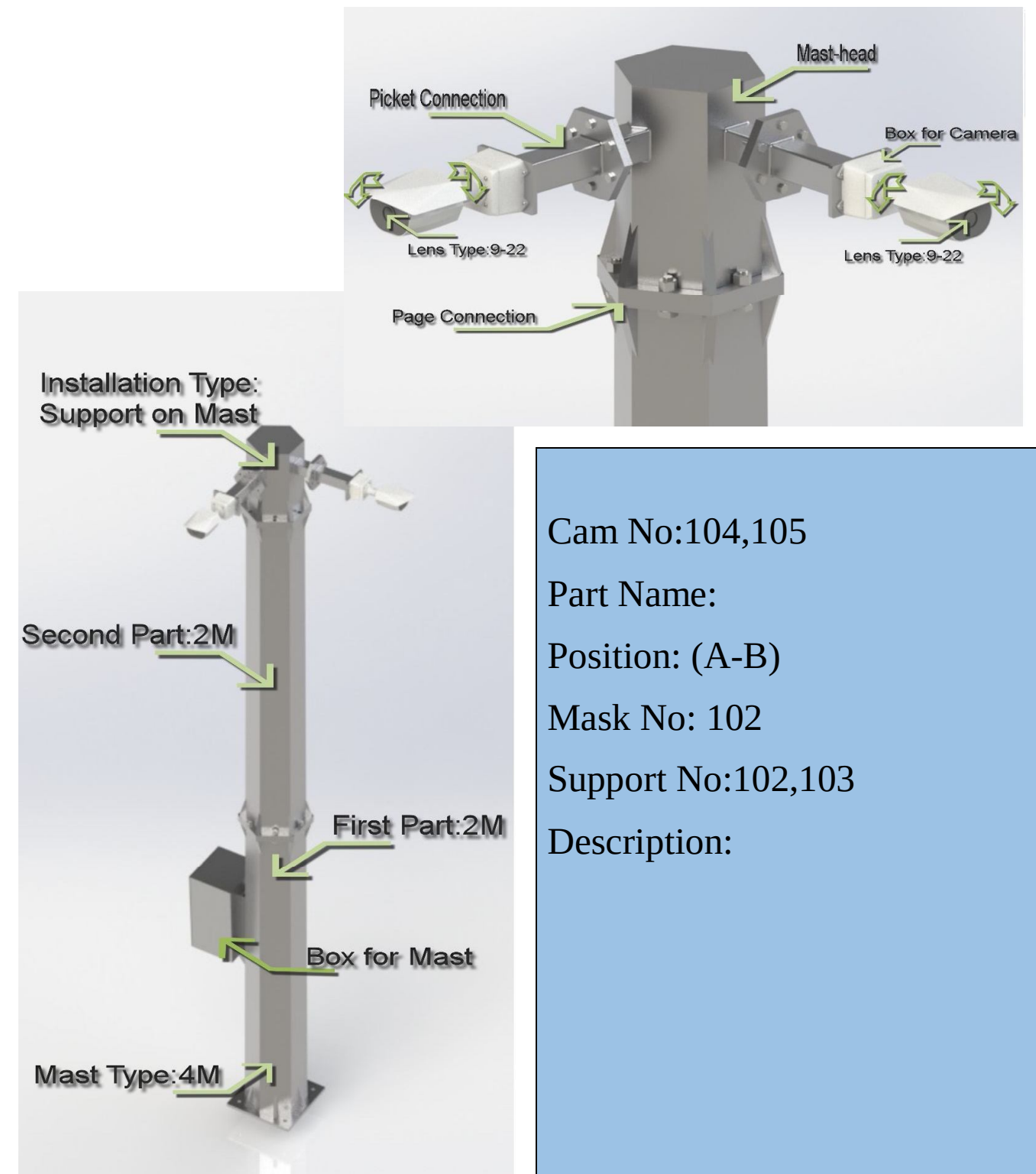
Description:

Jey Oil Refining Company



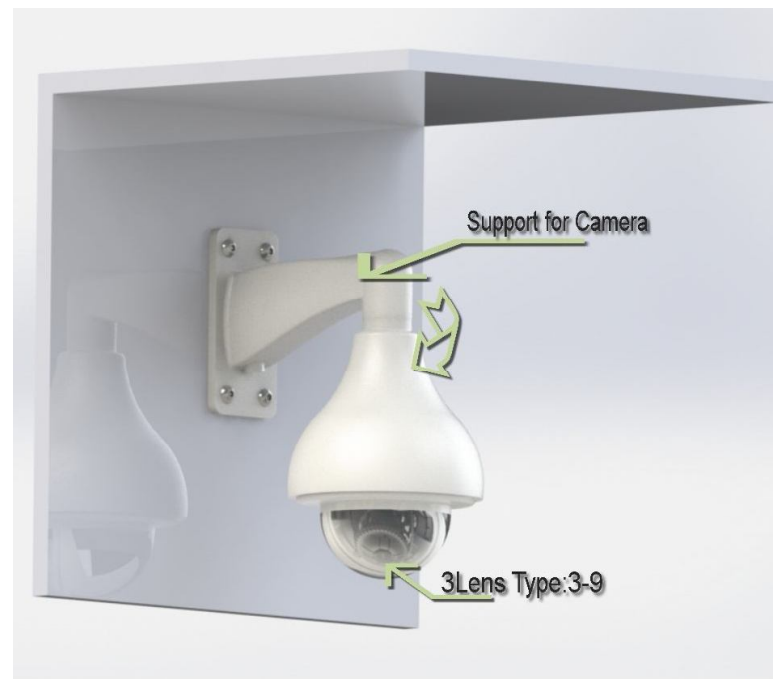
Cam No:103
 Part Name:
 Position: (A-A)
 Mask No: 101
 Support No:102
 Description:

Jey Oil Refining Company



Cam No:104,105
 Part Name:
 Position: (A-B)
 Mask No: 102
 Support No:102,103
 Description:

Jey Oil Refining Company



Cam No:106

Part Name:

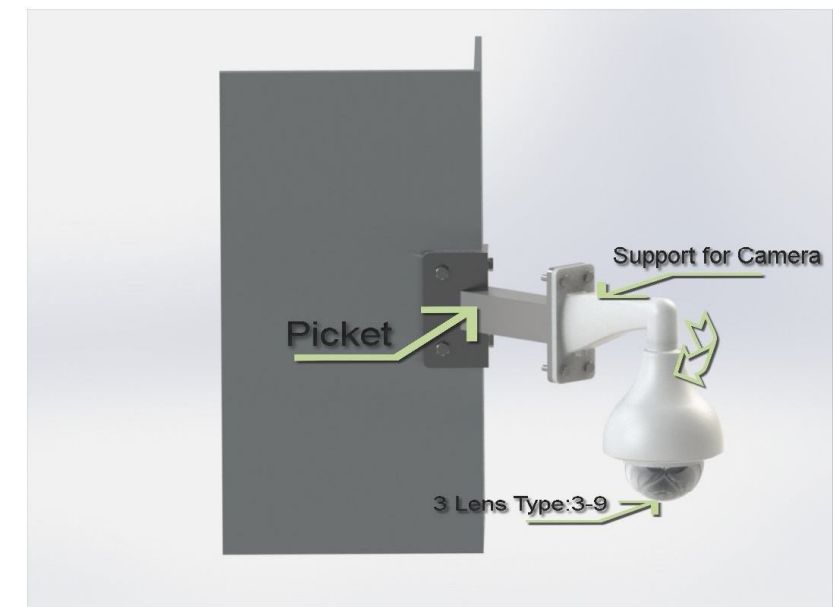
Position: (A-B)

Mask: -

Support: -

Description:

Jey Oil Refining Campony



Cam No:107,108,109

Part Name:

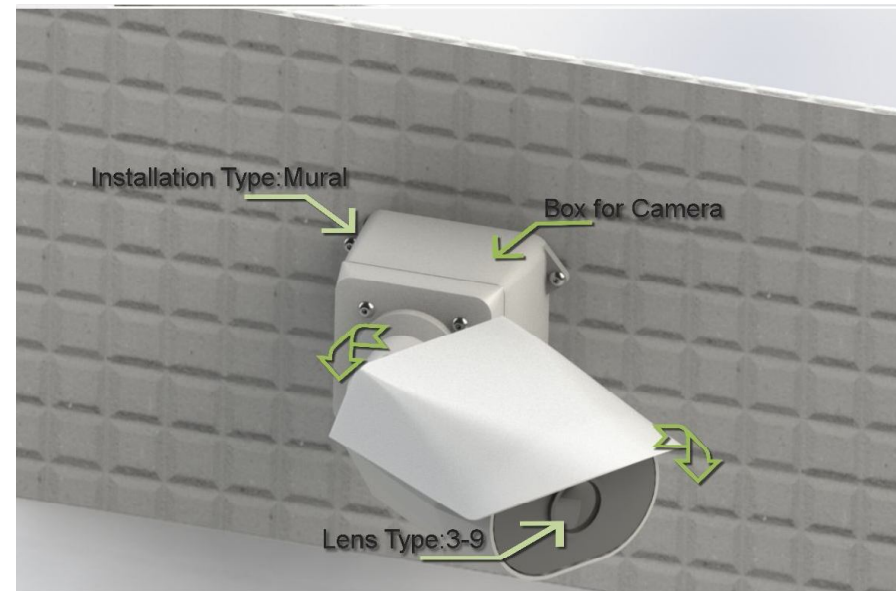
Position: (A-B)

Mask: -

Support No:104,105,106

Description:

Jey Oil Refining Company



Cam No:110

Part Name:

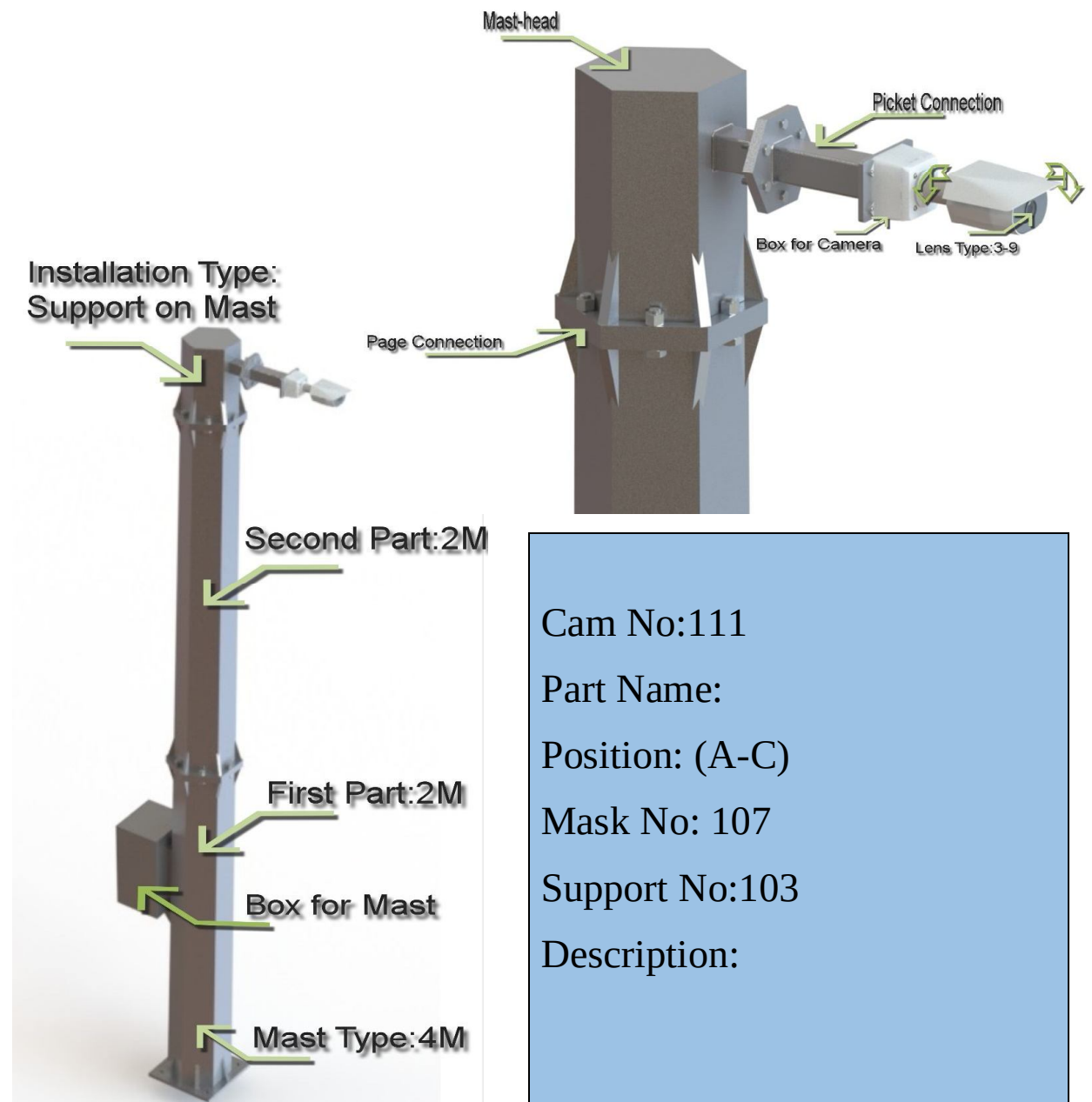
Position: (A-B)

Mask: -

Support: -

Description:

Jey Oil Refining Company



Cam No:111

Part Name:

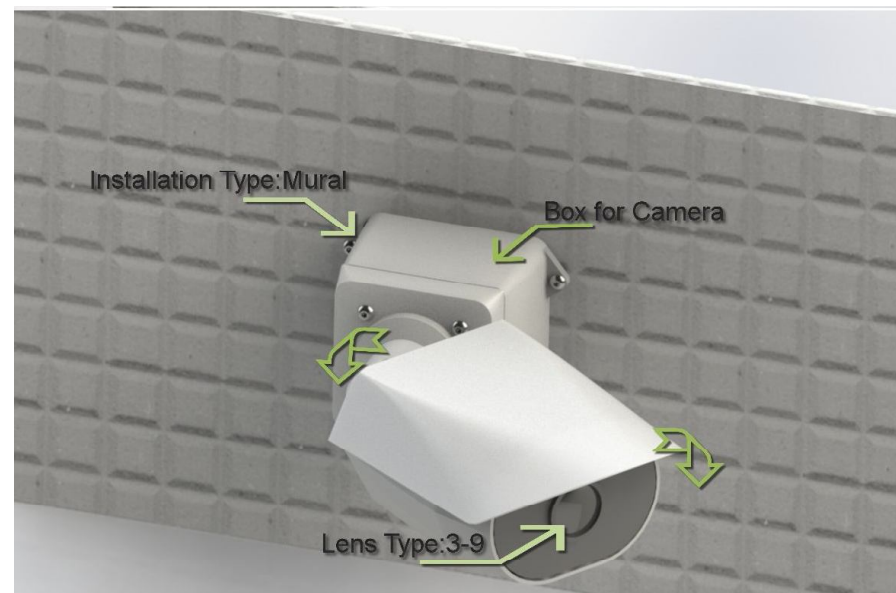
Position: (A-C)

Mask No: 107

Support No:103

Description:

Jey Oil Refining Company



Cam No:112

Part Name:

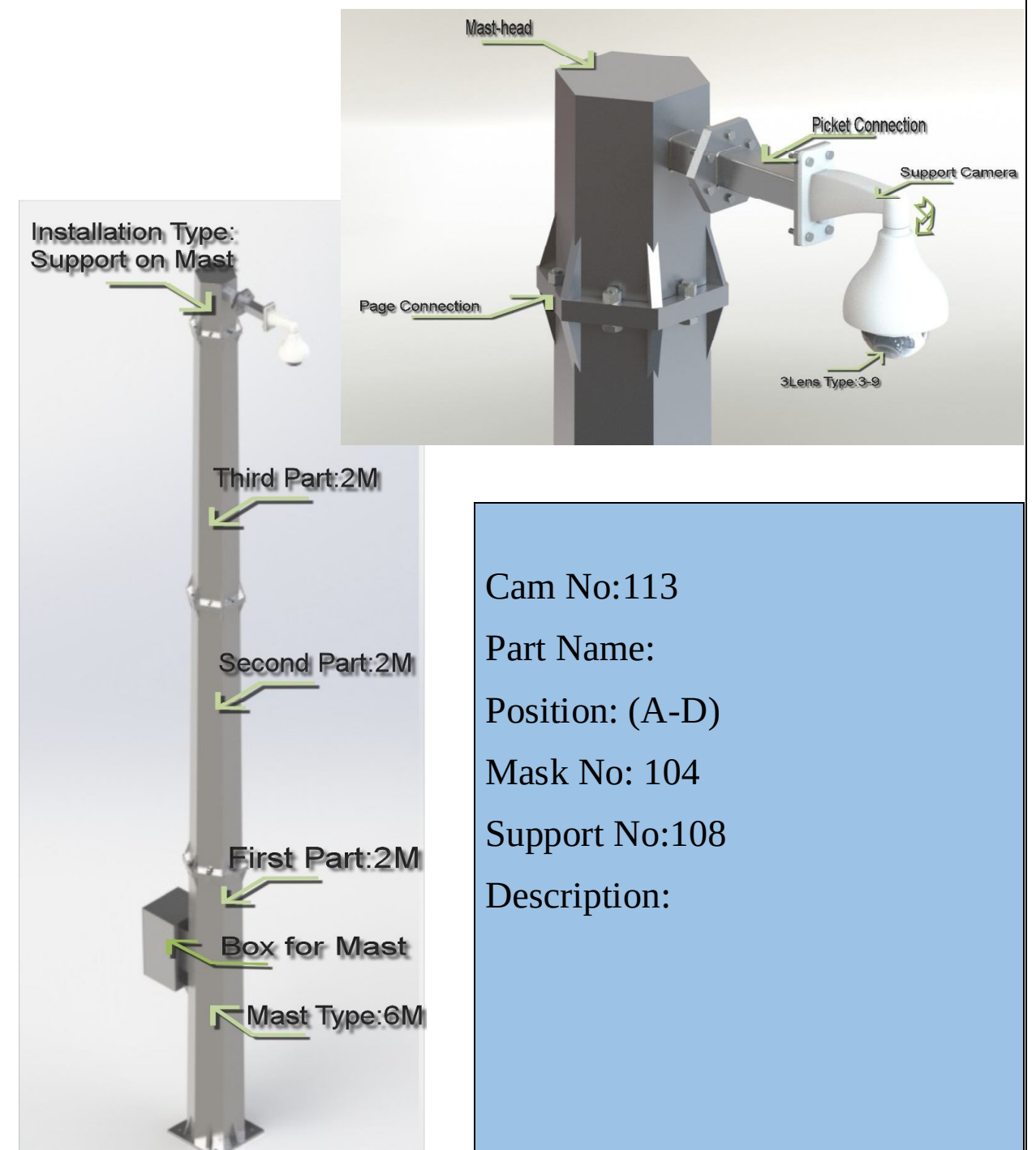
Position: (A-C)

Mask No: -

Support No: -

Description:

Jey Oil Refining Company



Cam No:113

Part Name:

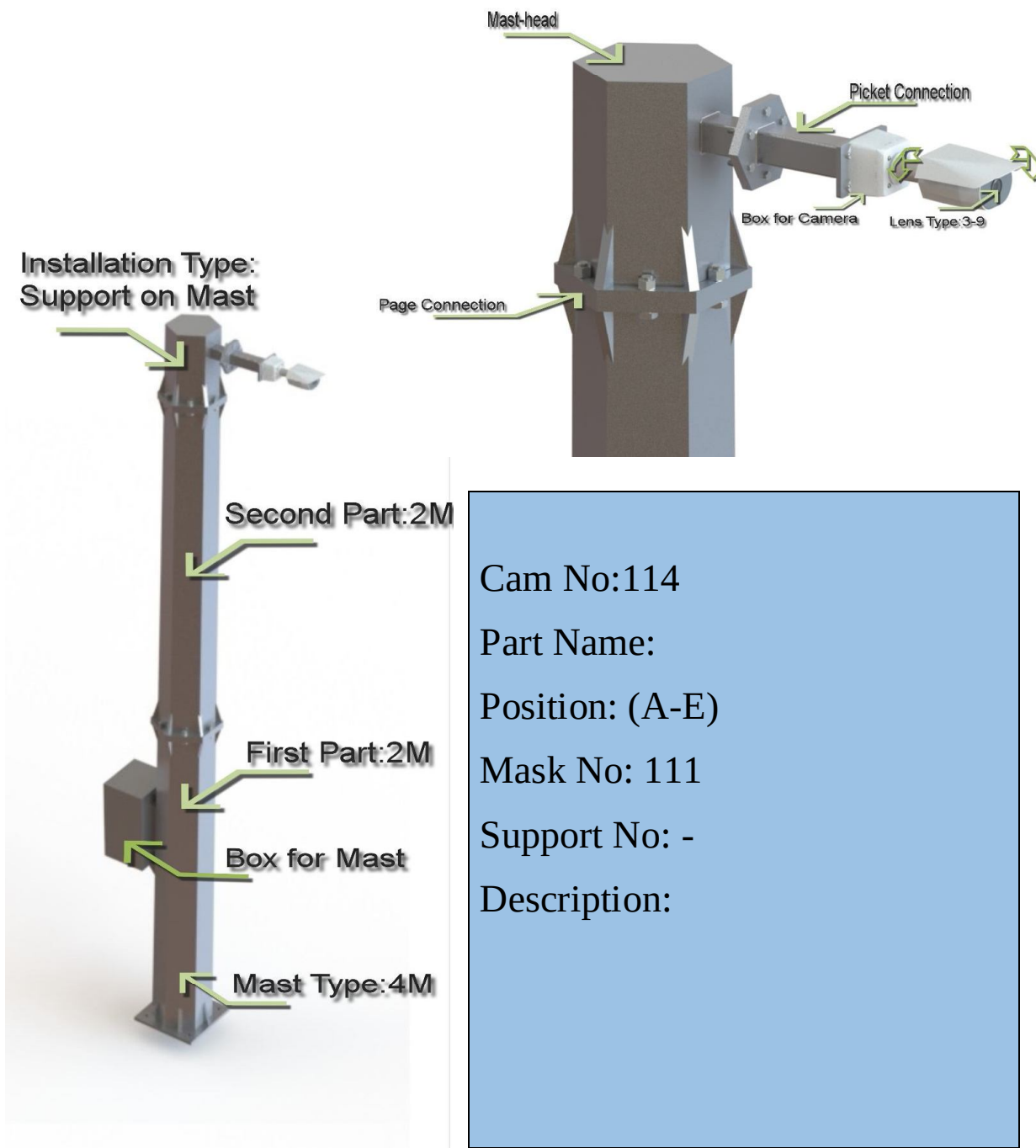
Position: (A-D)

Mask No: 104

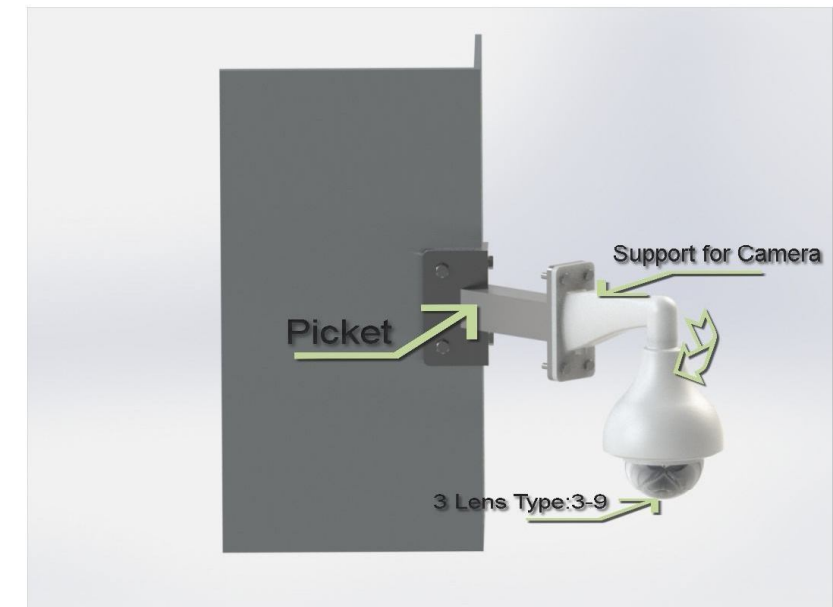
Support No:108

Description:

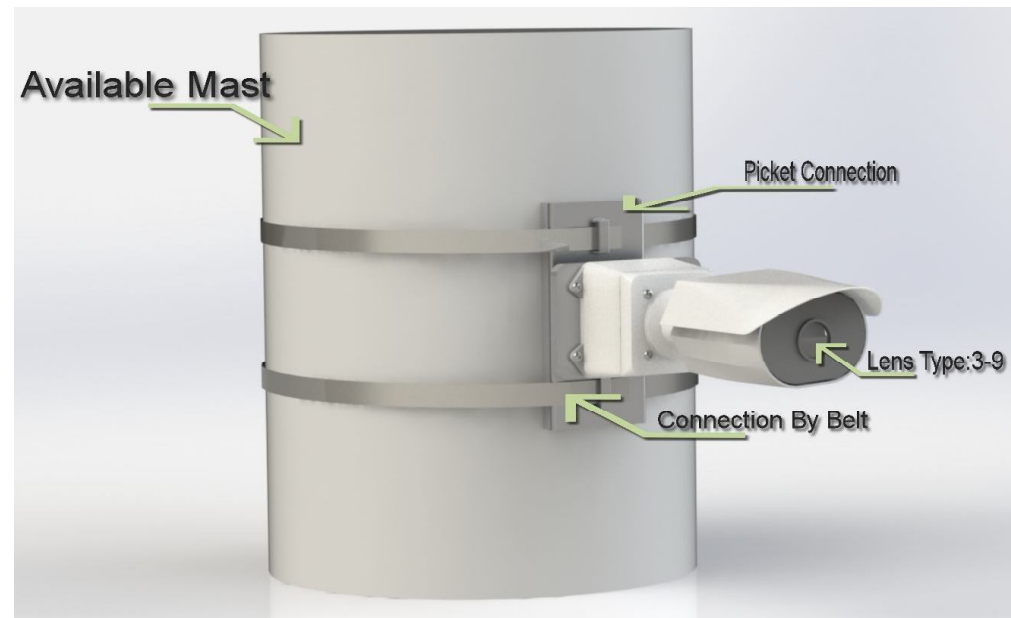
Jey Oil Refining Company



Jey Oil Refining Company

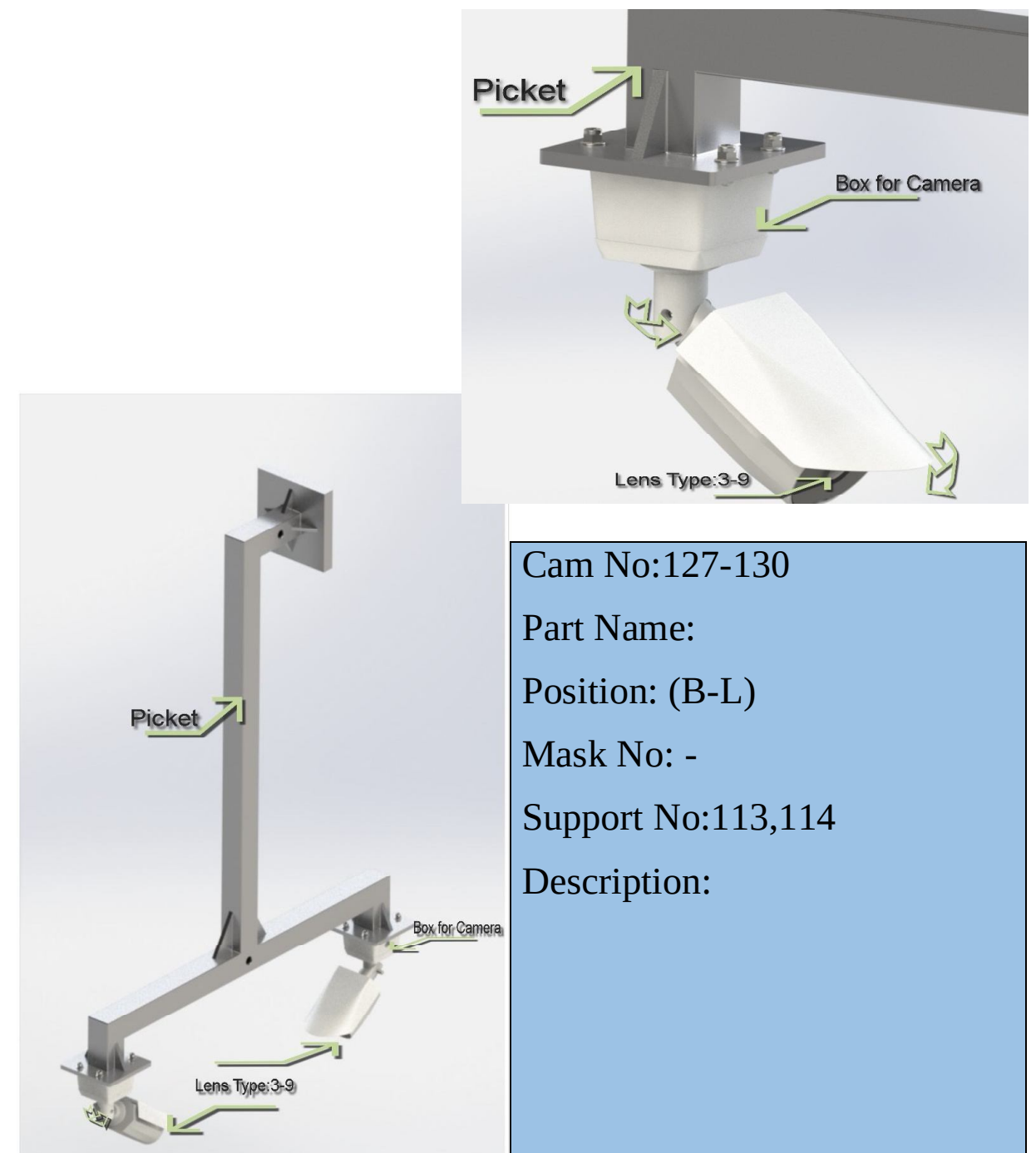


Jey Oil Refining Company



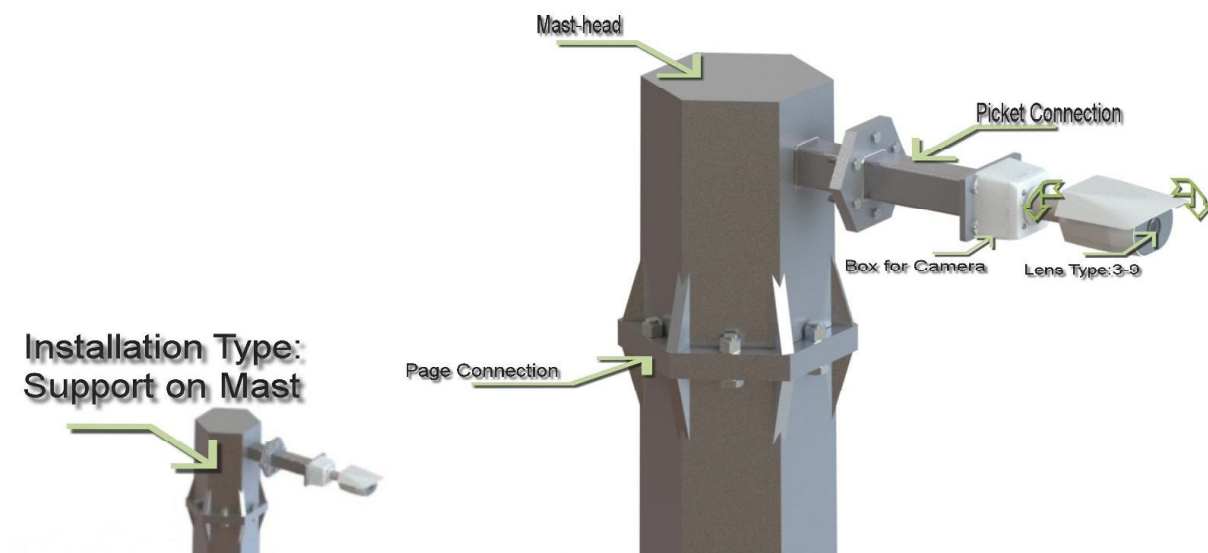
Cam No:116
 Part Name:
 Position: (A-F)
 Mask No: -
 Support No:112
 Description:

Jey Oil Refining Company



Cam No:127-130
 Part Name:
 Position: (B-L)
 Mask No: -
 Support No:113,114
 Description:

Jey Oil Refining Company



Installation Type:
Support on Mast

Second Part: 2M

Cam No: 201

Part Name:

Position: (A-F)

Mask No: 106

Support No: 114

Description:

First Part: 2M

Box for Mast

Mast Type: 4M

Jey Oil Refining Company



Cam No: 202, 203, 204, 205

Part Name:

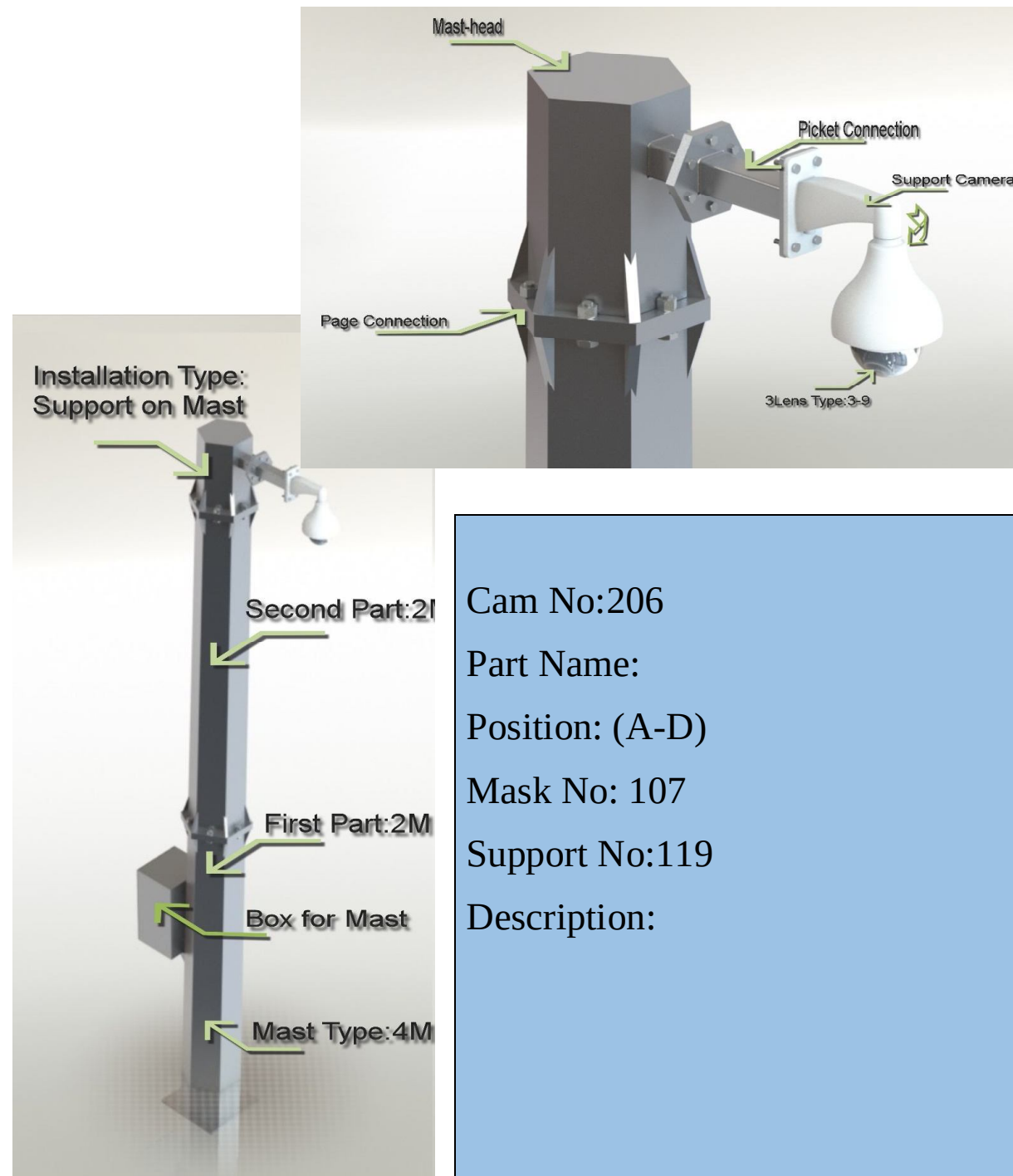
Position: (B-B)

Mask No: -

Support No: 115-118

Description:

Jey Oil Refining Company



Cam No:206

Part Name:

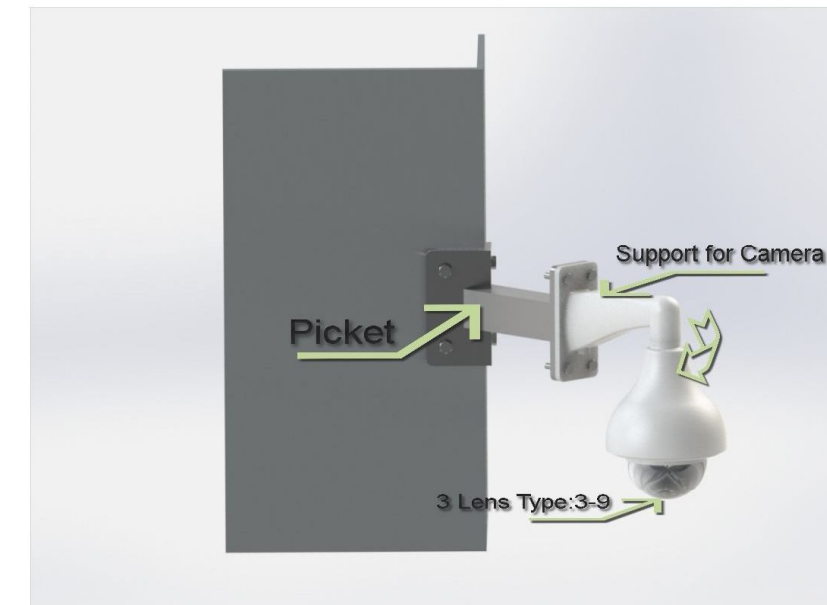
Position: (A-D)

Mask No: 107

Support No:119

Description:

Jey Oil Refining Company



Cam No:207,208

Part Name:

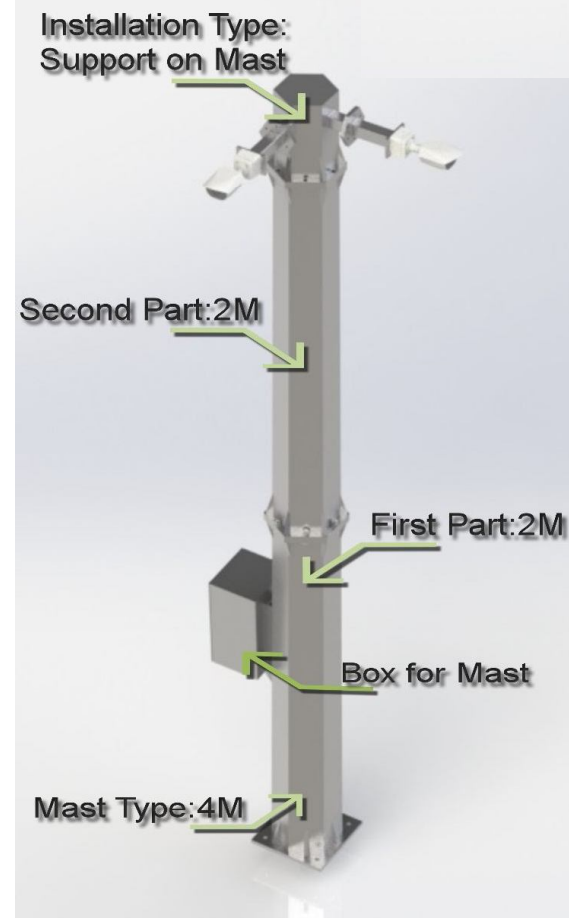
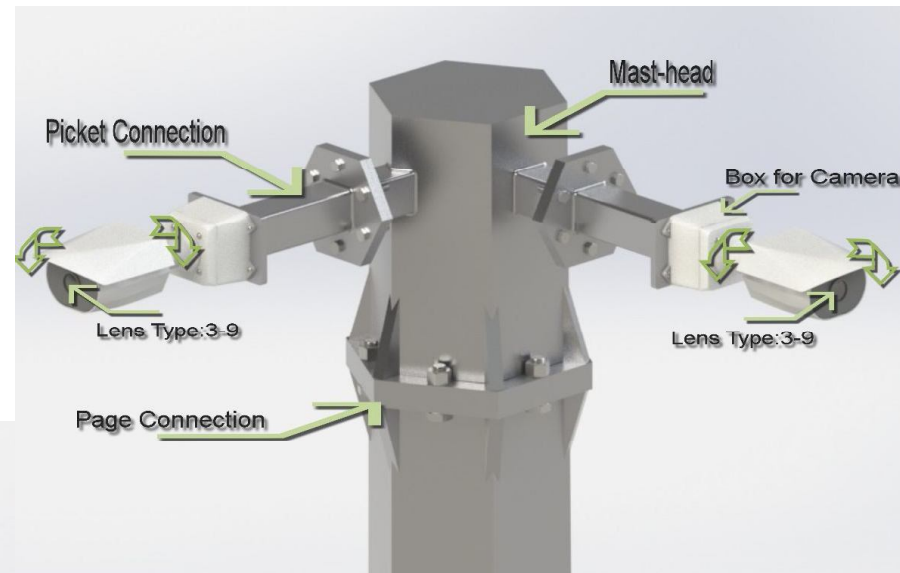
Position: (B-C)

Mask No: -

Support No:120,121

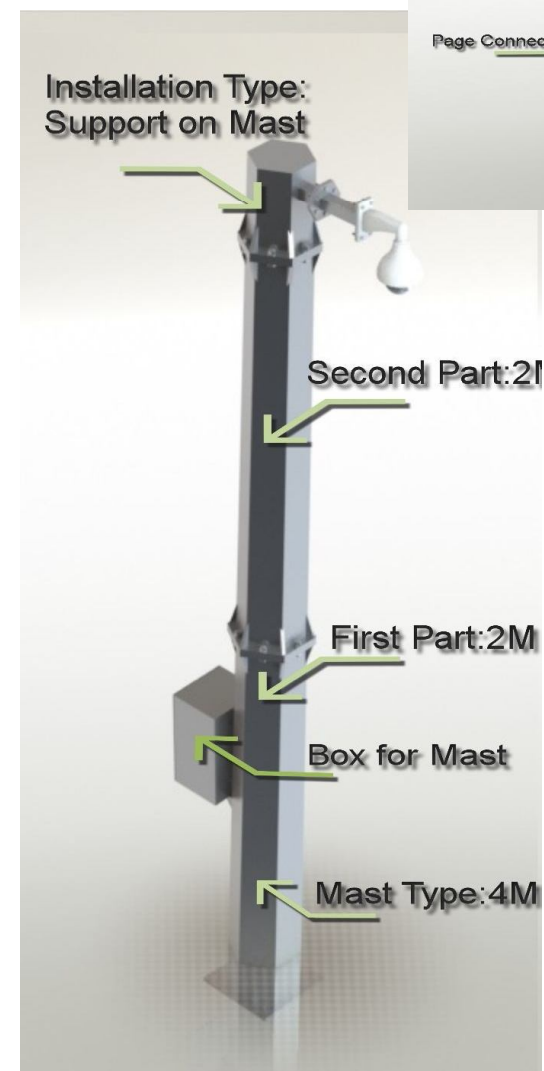
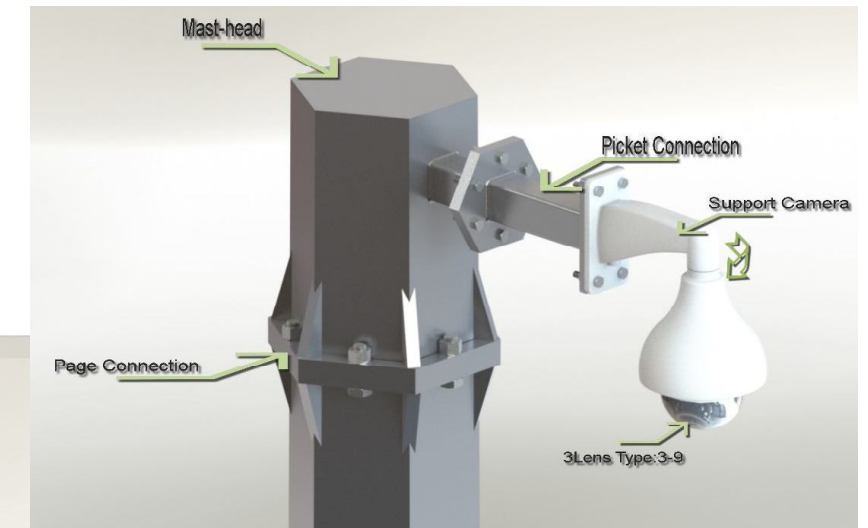
Description:

Jey Oil Refining Company



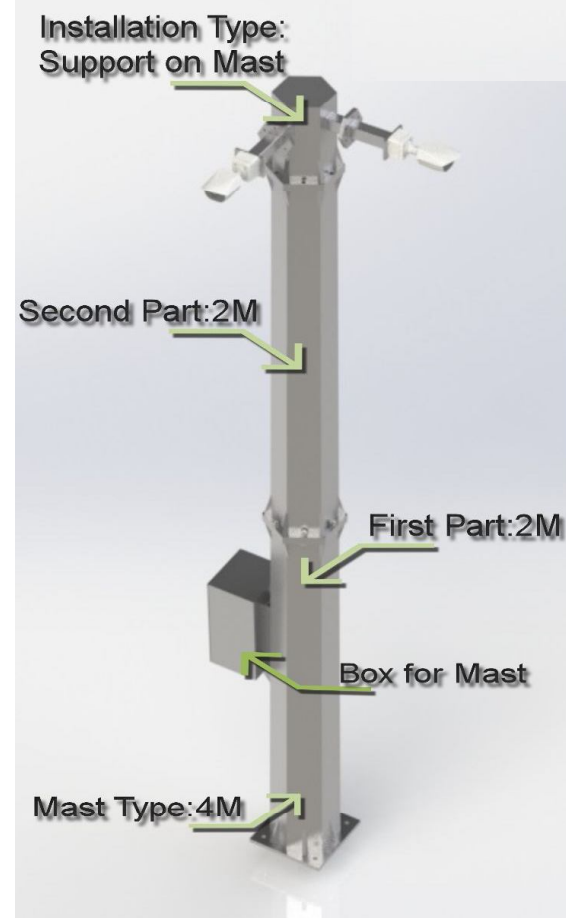
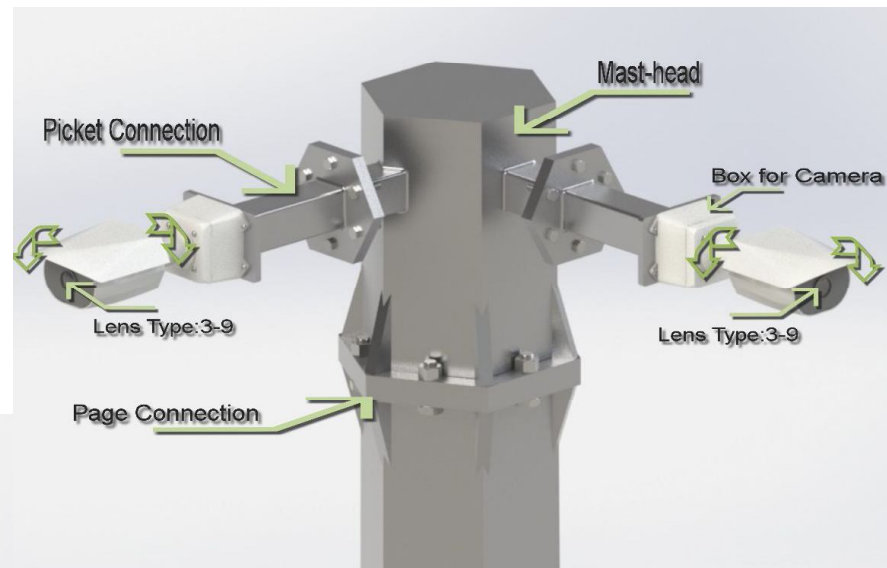
Cam No:209-214
 Part Name:
 Position: (B-D)
 Mask No: 108-110
 Support No:122-127
 Description:

Jey Oil Refining Company



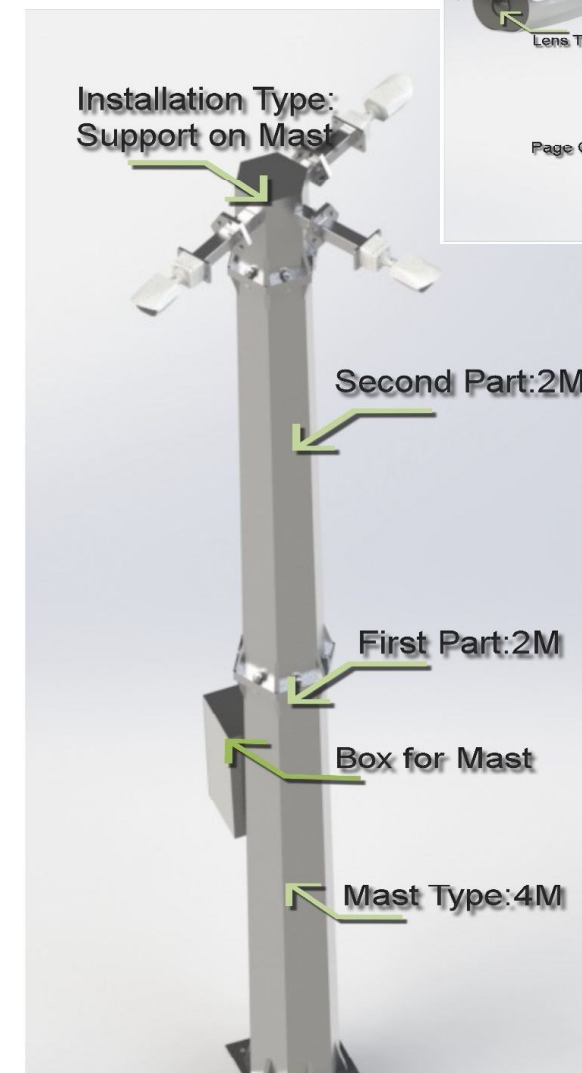
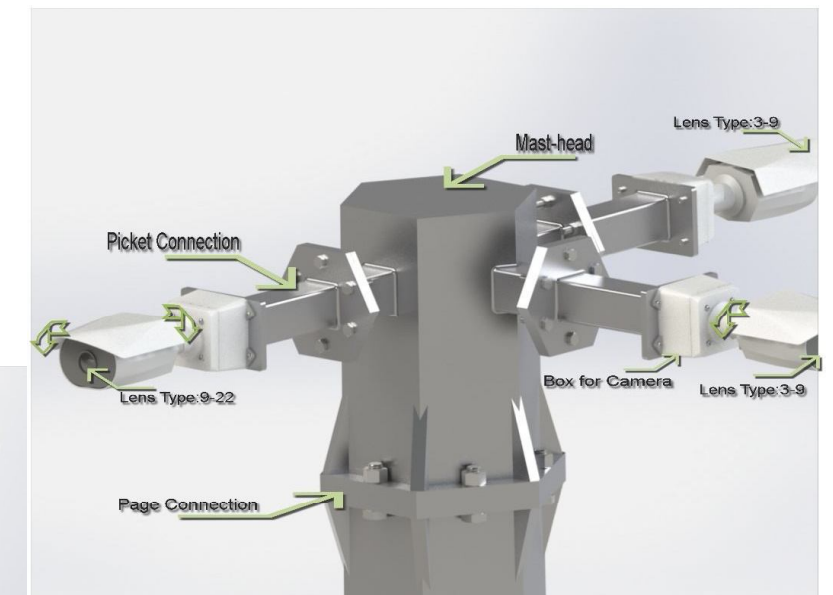
Cam No:215
 Part Name:
 Position: (B-E)
 Mask No: 111
 Support No:128
 Description:

Jey Oil Refining Company



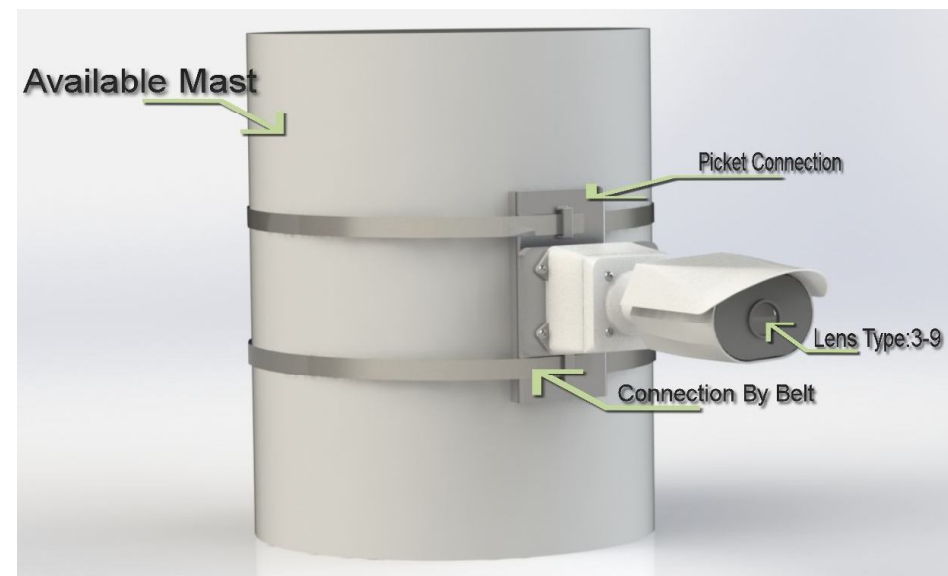
Cam No:216-217
 Part Name:
 Position: (B-E)
 Mask No: 112
 Support No:129,130
 Description:

Jey Oil Refining Company



Cam No:218,219,220
 Part Name:
 Position: (B-F)
 Mask No: -
 Support No:131-133
 Description:

Jey Oil Refining Company



Cam No:218,219

Part Name:

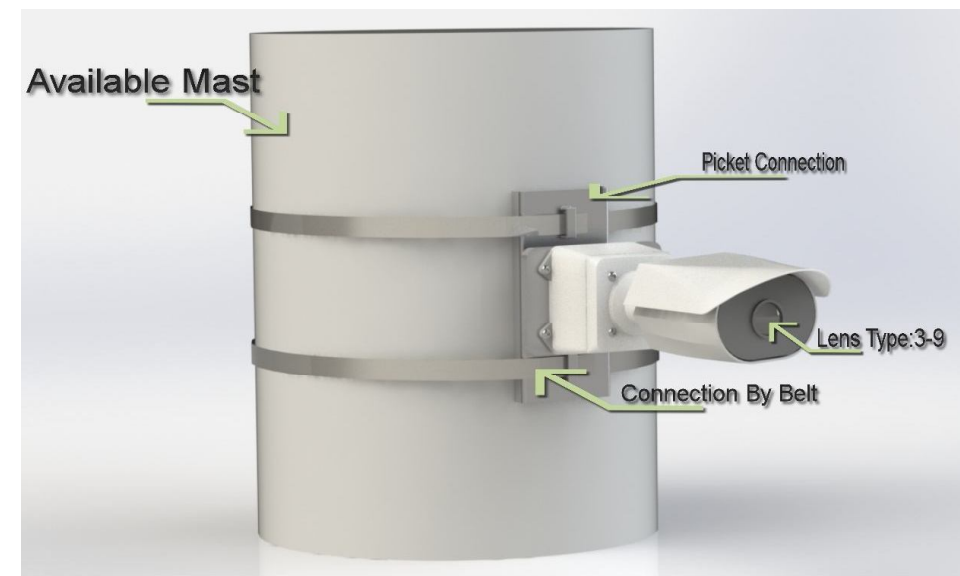
Position: (B-F)

Mask No: -

Support No:131-132

Description:

Jey Oil Refining Company



Cam No: 220

Part Name:

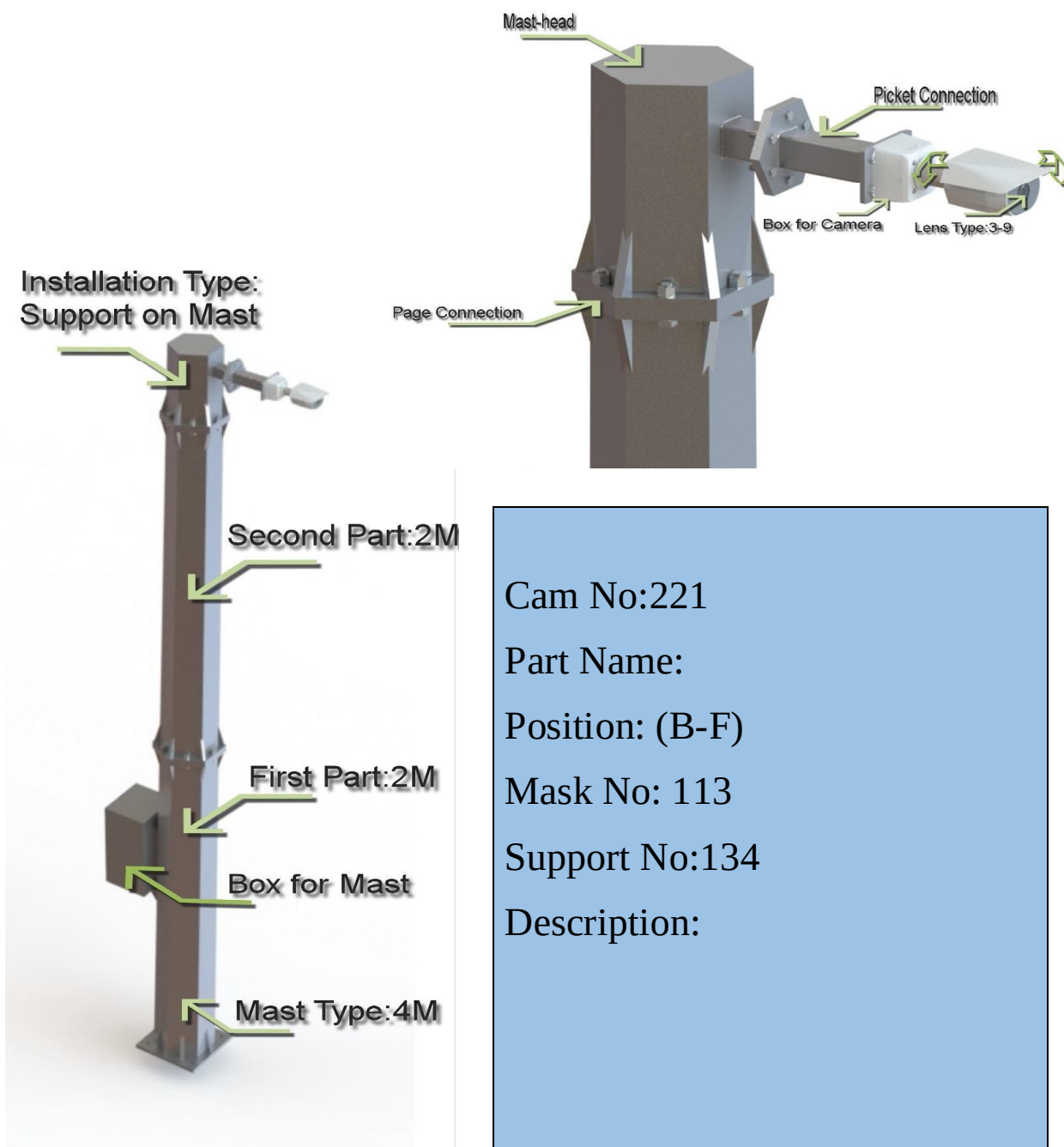
Position: (B-F)

Mask No: -

Support No: 133

Description:

Jey Oil Refining Company



Cam No:221

Part Name:

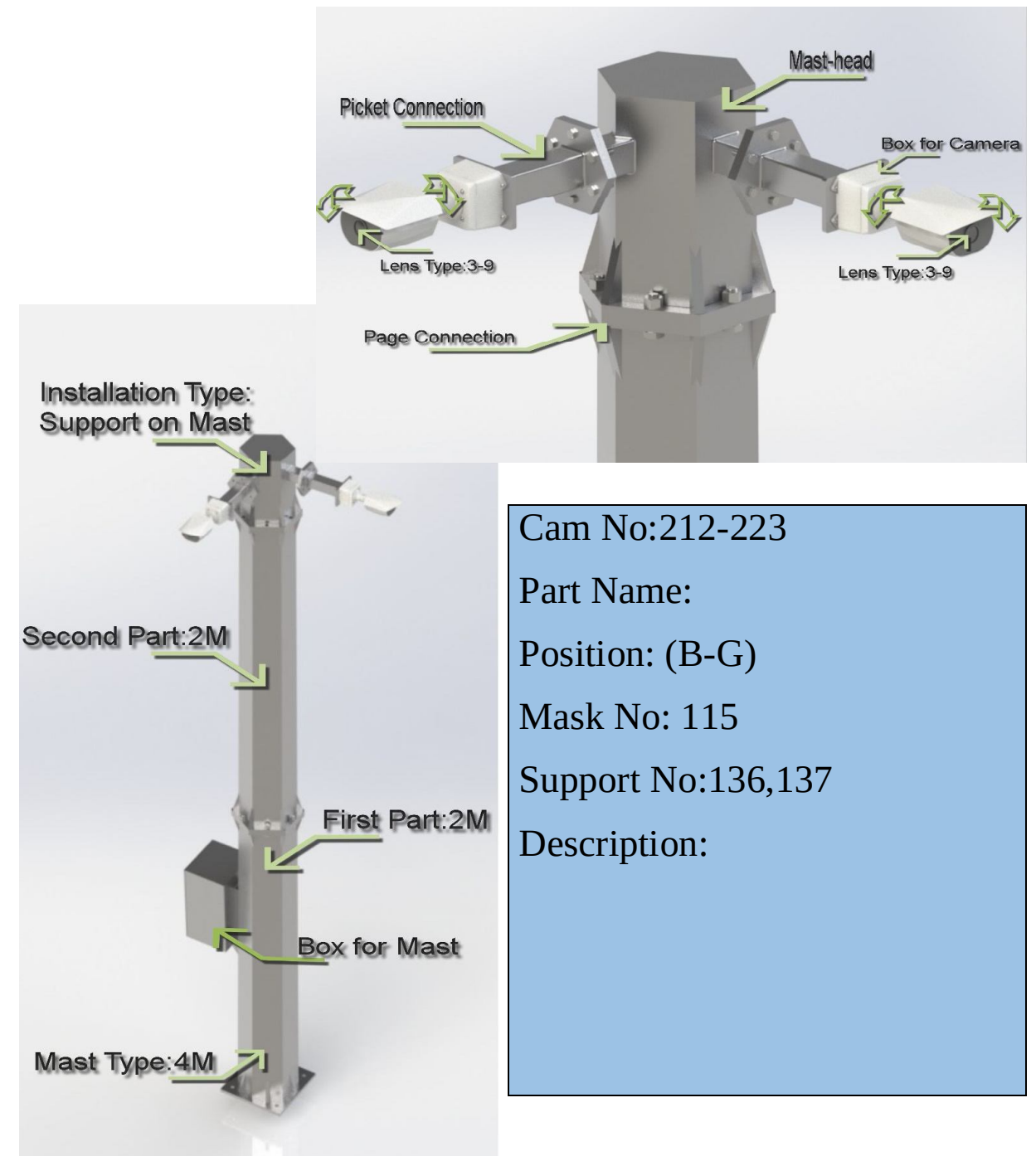
Position: (B-F)

Mask No: 113

Support No:134

Description:

Jey Oil Refining Company



Cam No:212-223

Part Name:

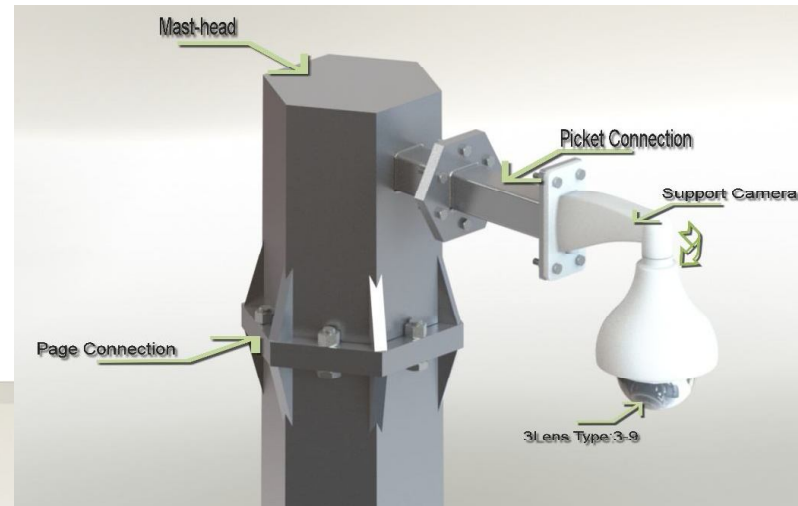
Position: (B-G)

Mask No: 115

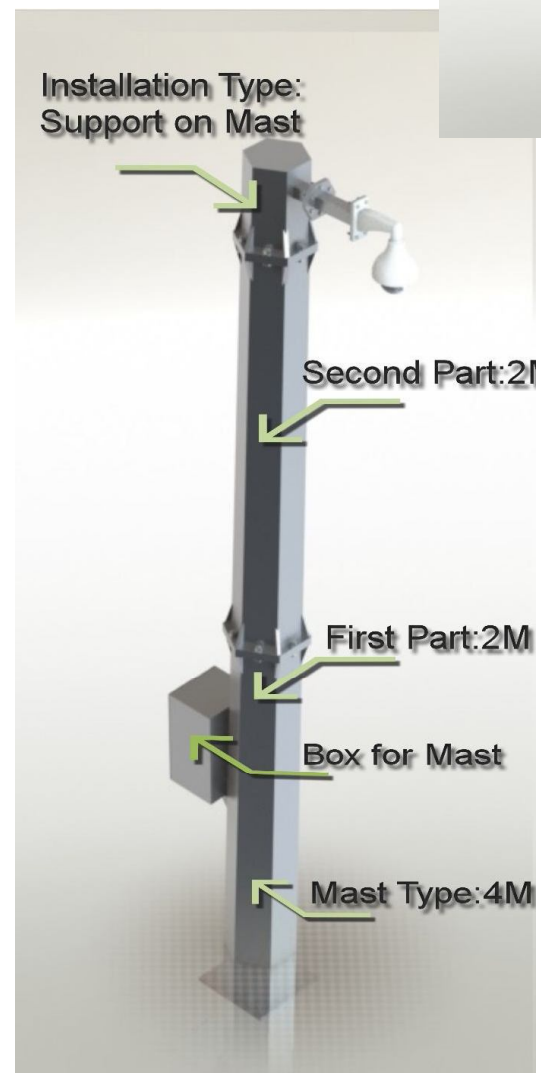
Support No:136,137

Description:

Jey Oil Refining Company



Installation Type:
Support on Mast



Cam No:224

Part Name:

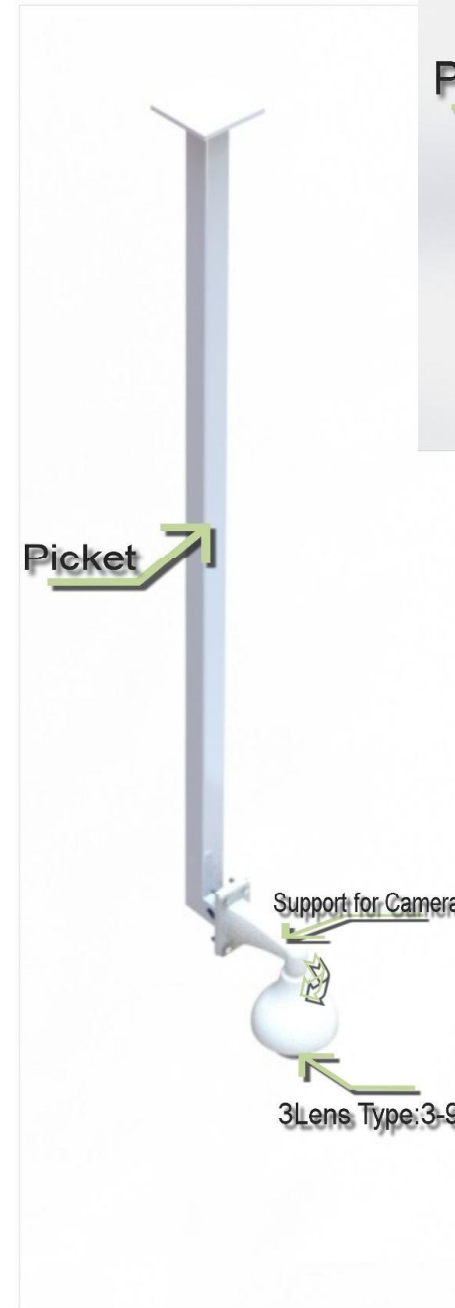
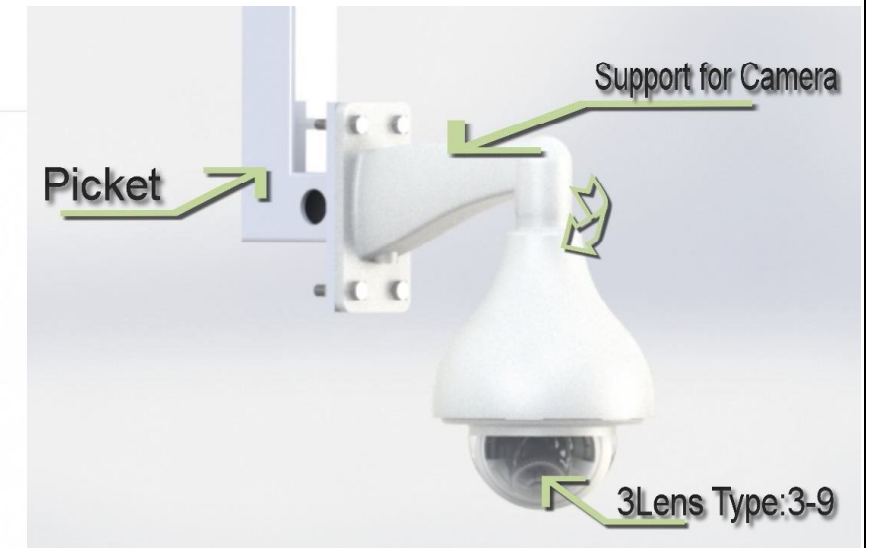
Position: (B-G)

Mask No: 114

Support No:135

Description:

Jey Oil Refining Company



Cam No:226

Part Name:

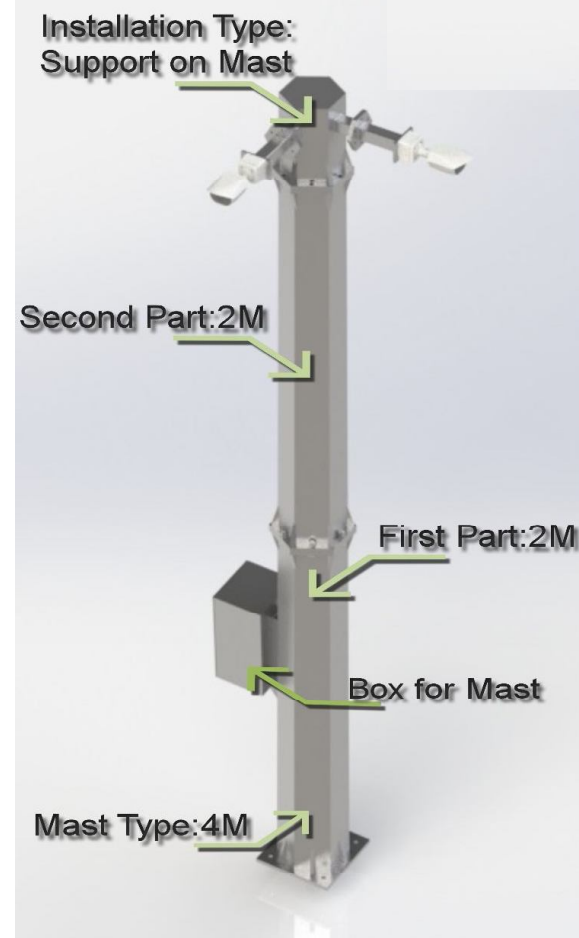
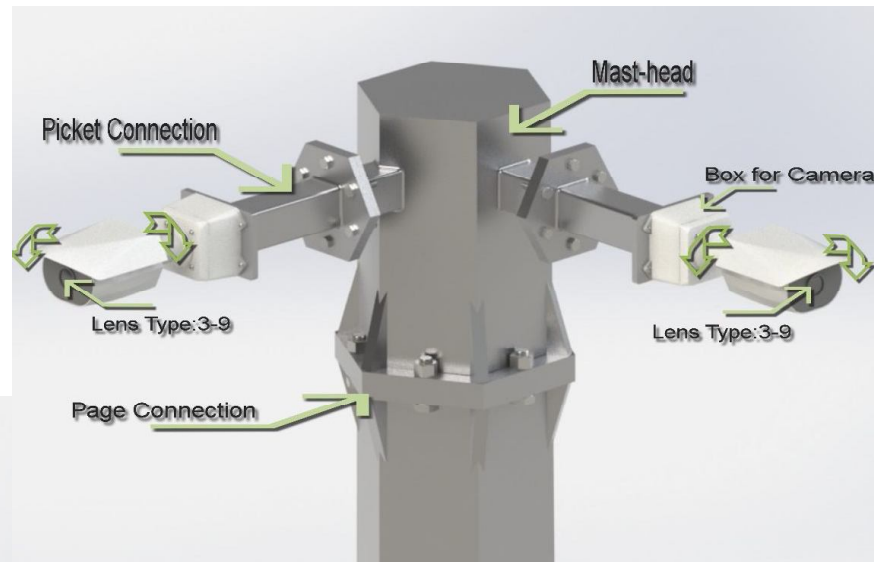
Position: (B-H)

Mask No: -

Support No:136

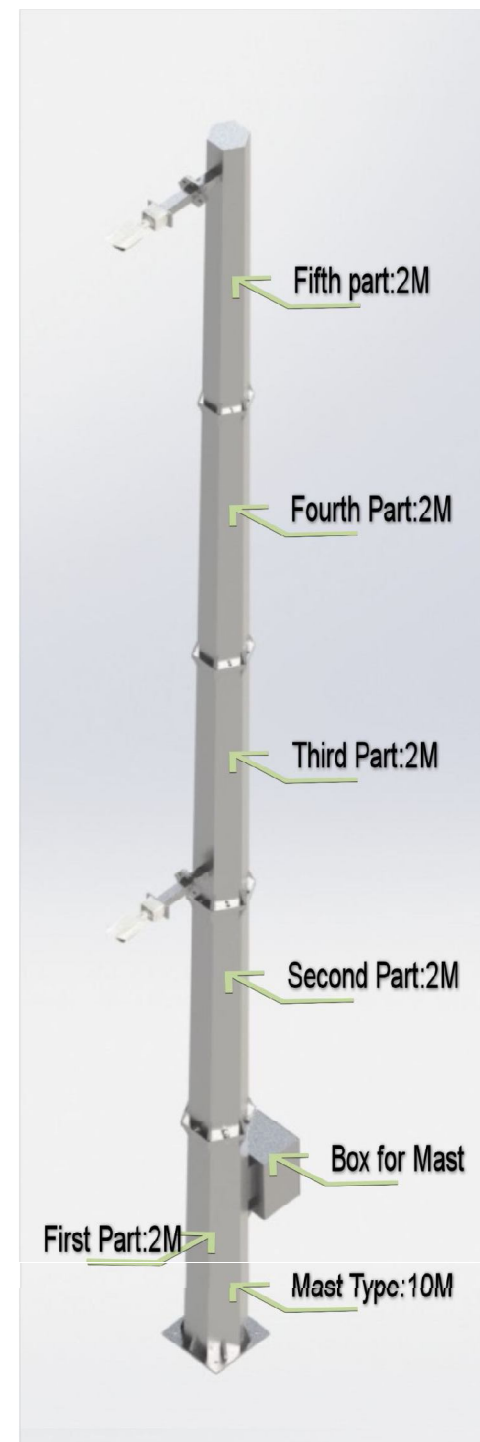
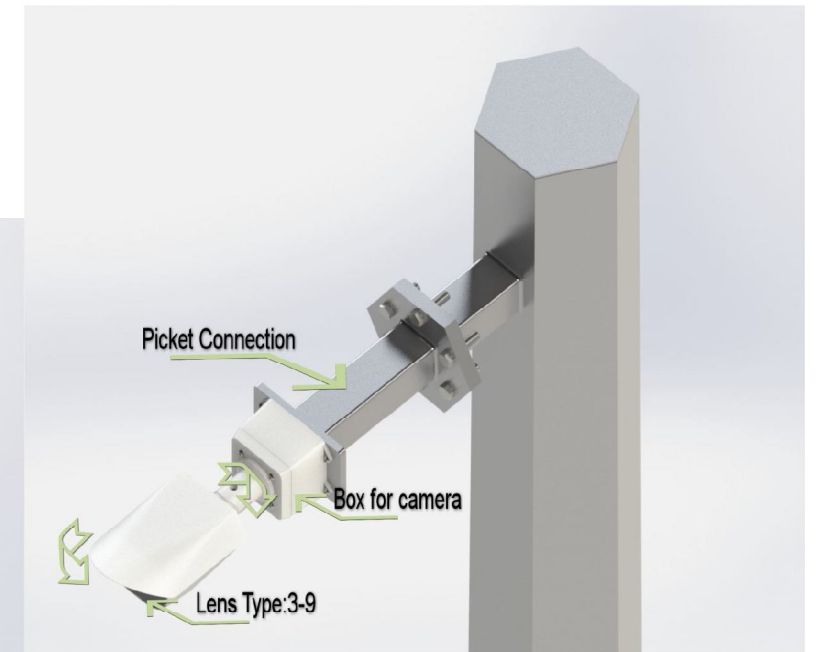
Description:

Jey Oil Refining Company



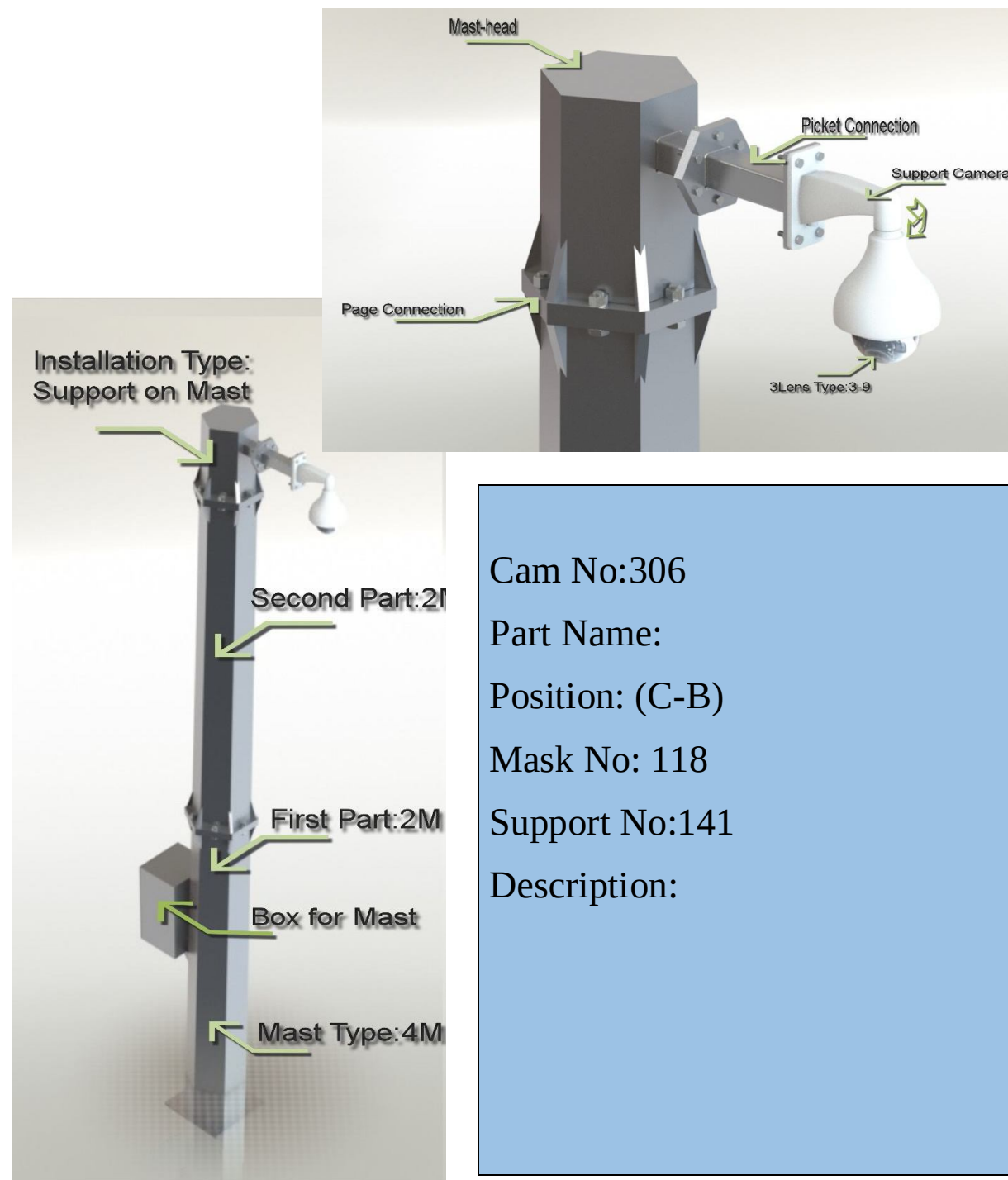
Cam No:301,302
 Part Name:
 Position: (C-A)
 Mask No: 116
 Support No:137,138
 Description:

Jey Oil Refining Company



Cam No:303,304
 Part Name:
 Position: (C-A)
 Mask No: 117
 Support No:140,141
 Description:

Jey Oil Refining Company



Cam No:306

Part Name:

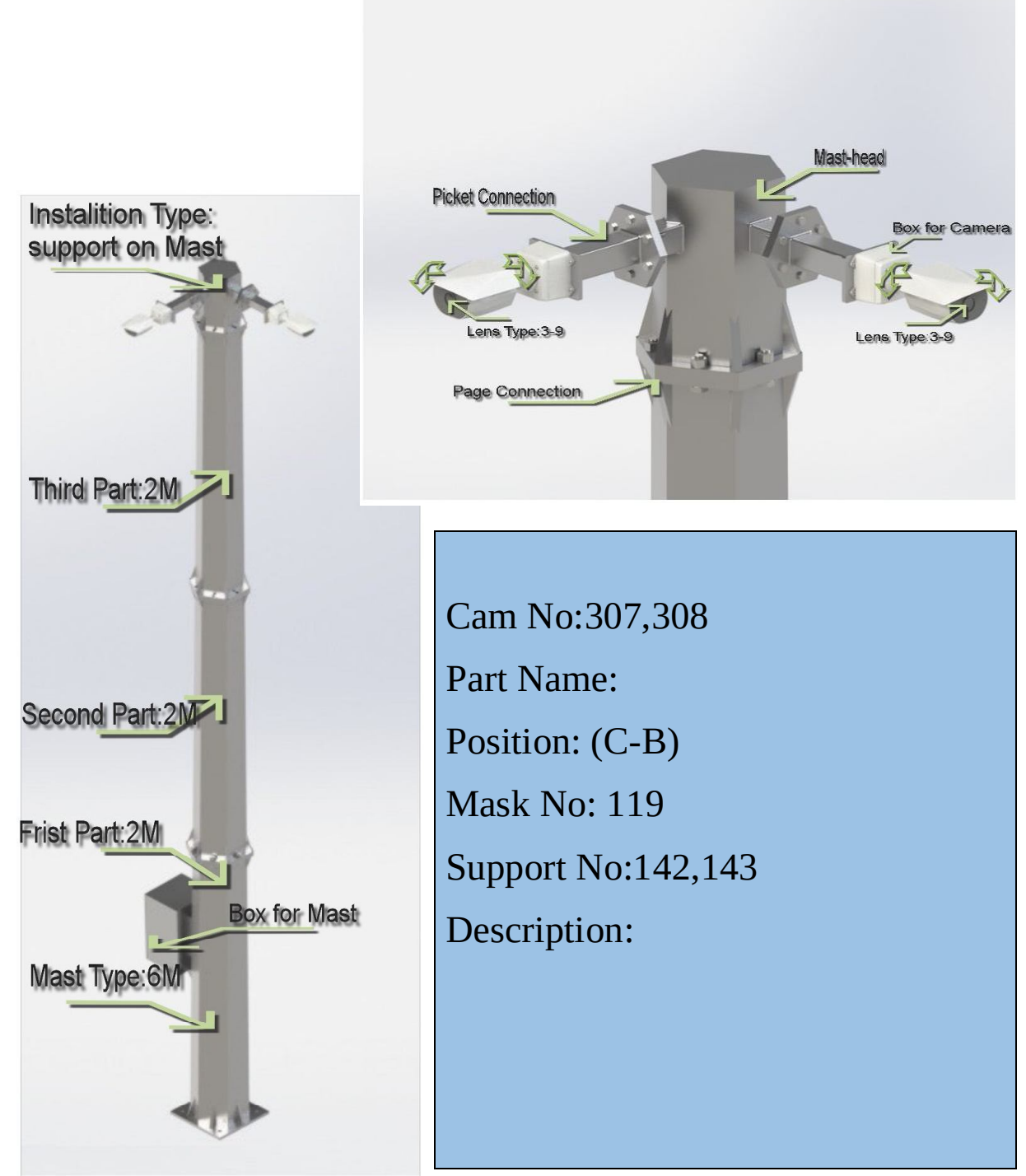
Position: (C-B)

Mask No: 118

Support No:141

Description:

Jey Oil Refining Company



Cam No:307,308

Part Name:

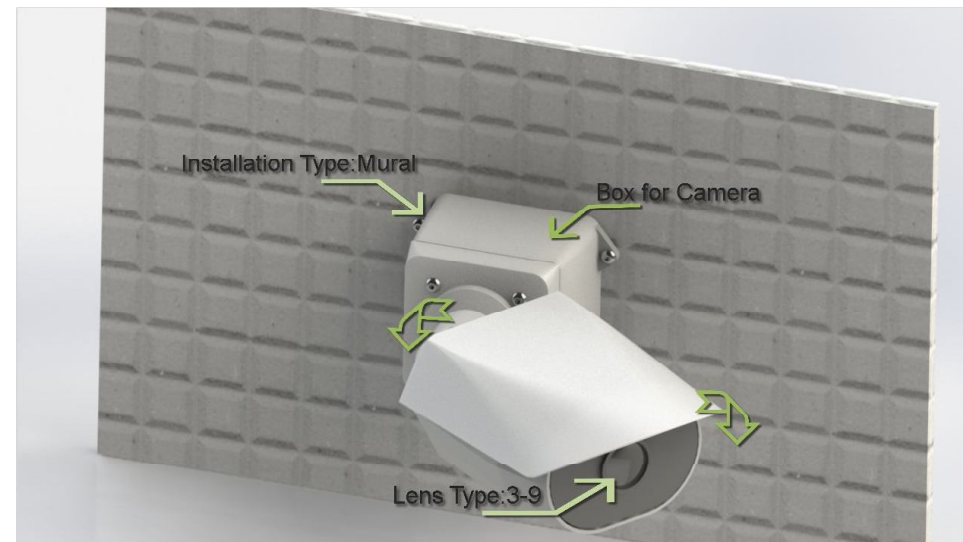
Position: (C-B)

Mask No: 119

Support No:142,143

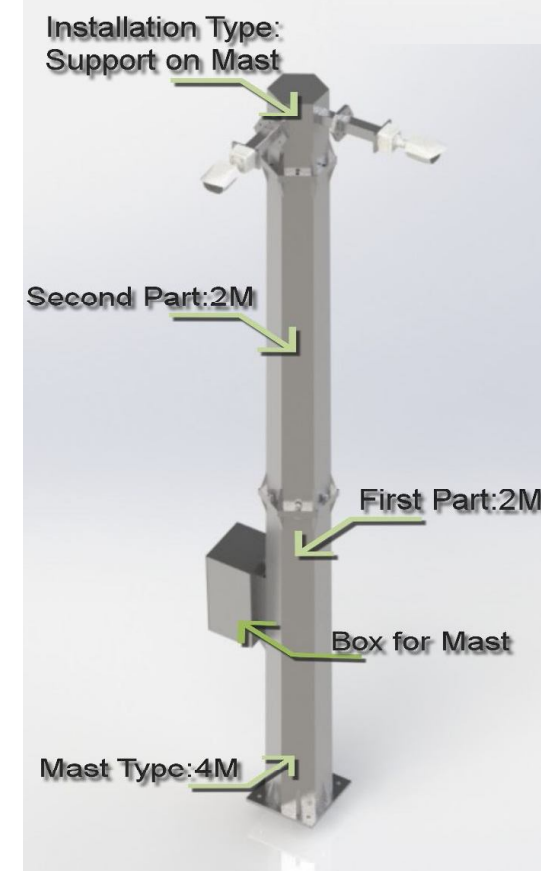
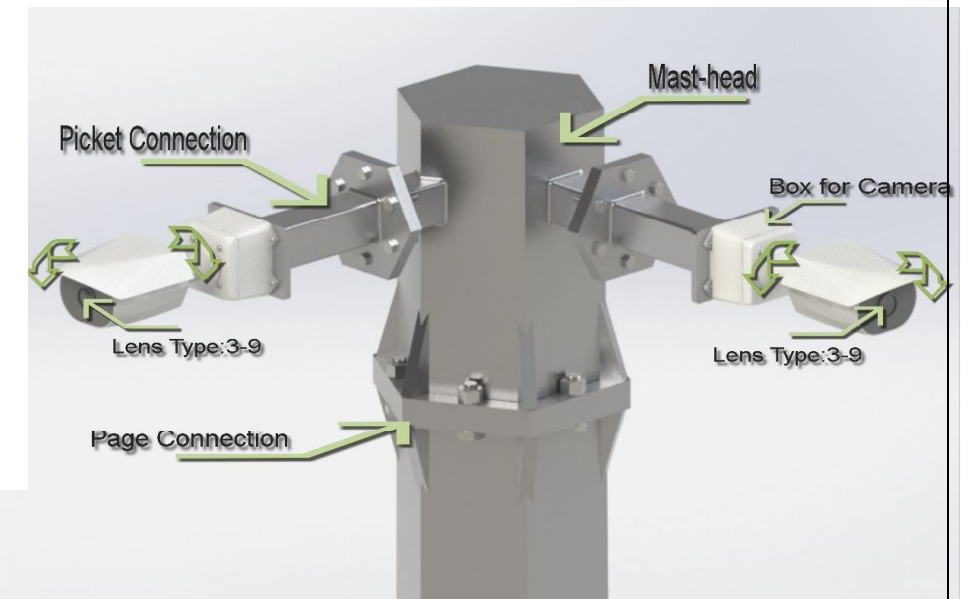
Description:

Jey Oil Refining Company



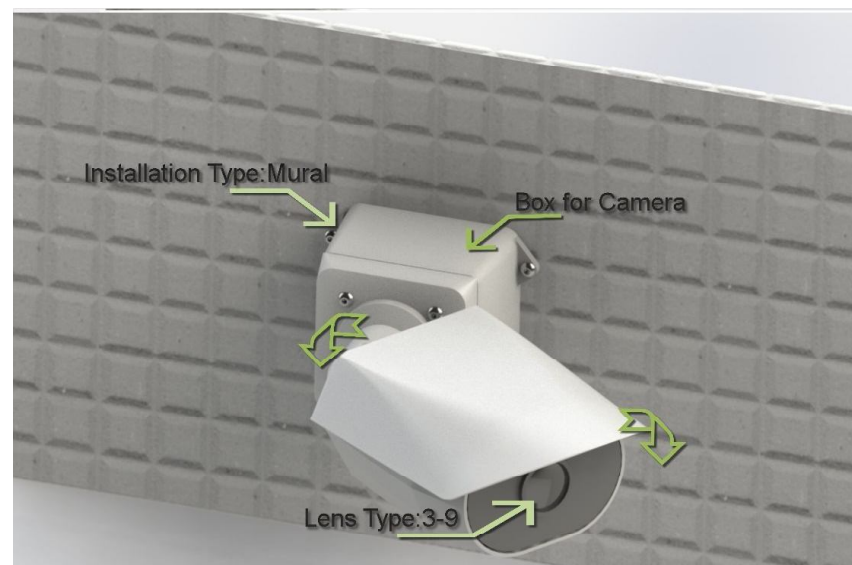
Cam No:309
 Part Name:
 Position: (C-B)
 Mask No: -
 Support No:-
 Description:

Jey Oil Refining Company



Cam No:310,311
 Part Name:
 Position: (C-A)
 Mask No: 120
 Support No:144,145
 Description:

Jey Oil Refining Company



Cam No:312,313

Part Name:

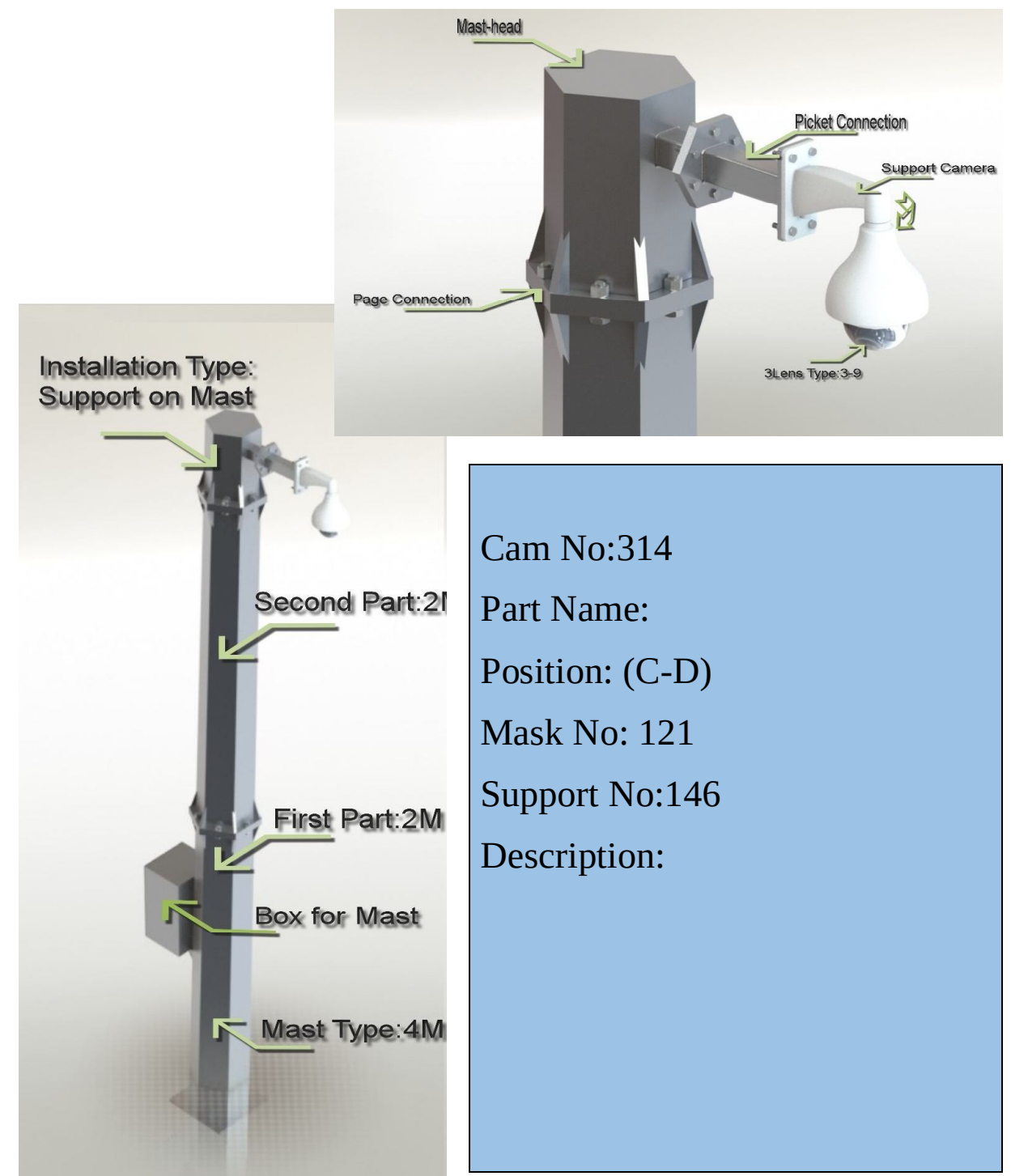
Position: (C-C)

Mask No: -

Support No:-

Description:

Jey Oil Refining Company



Cam No:314

Part Name:

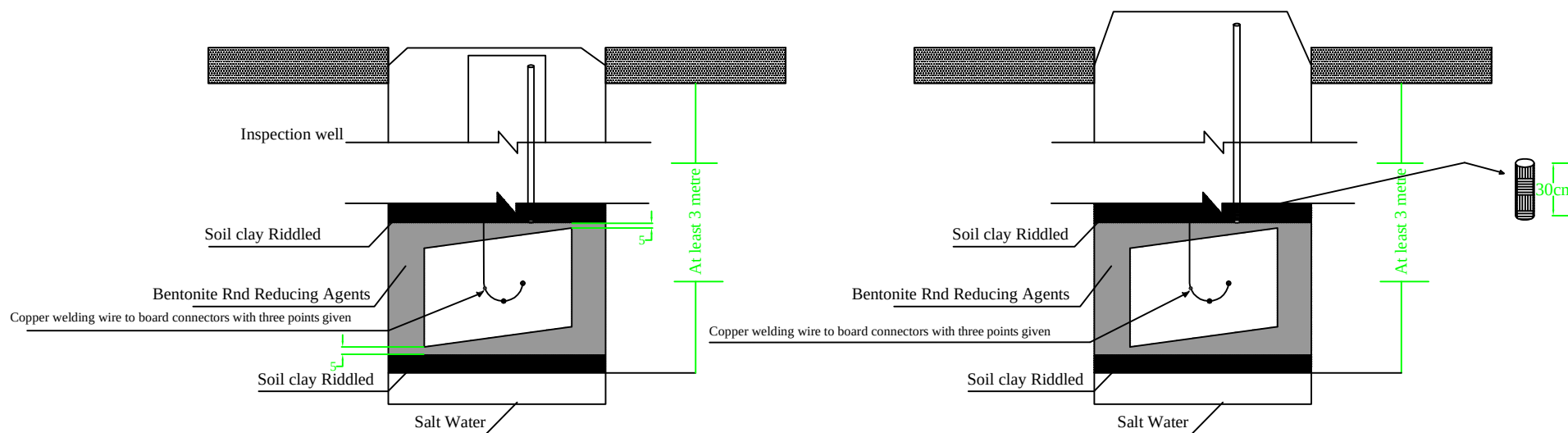
Position: (C-D)

Mask No: 121

Support No:146

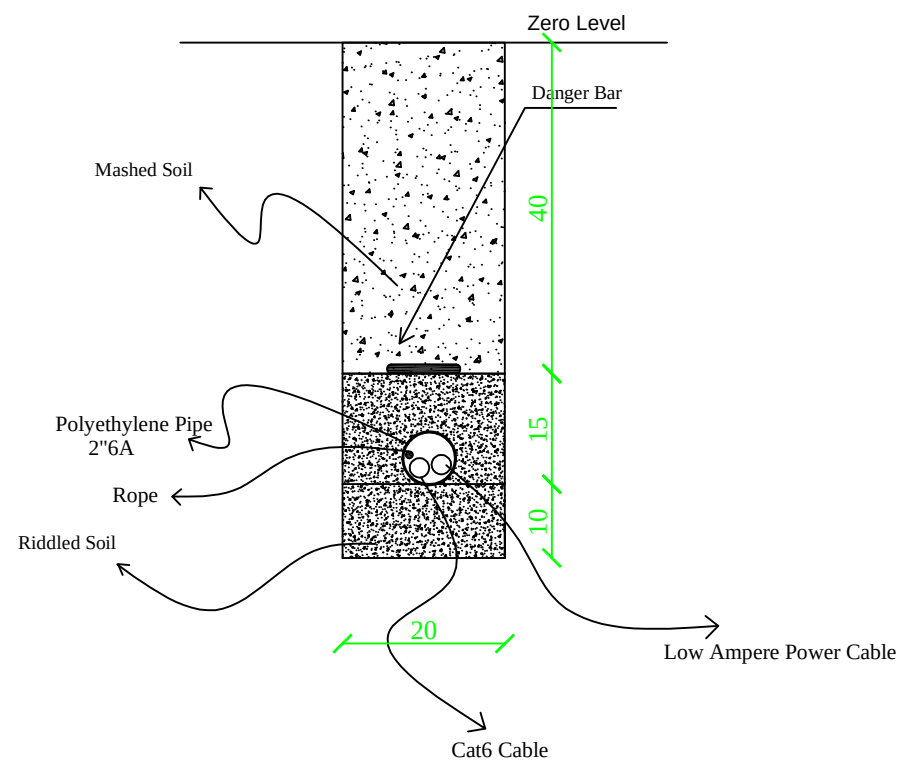
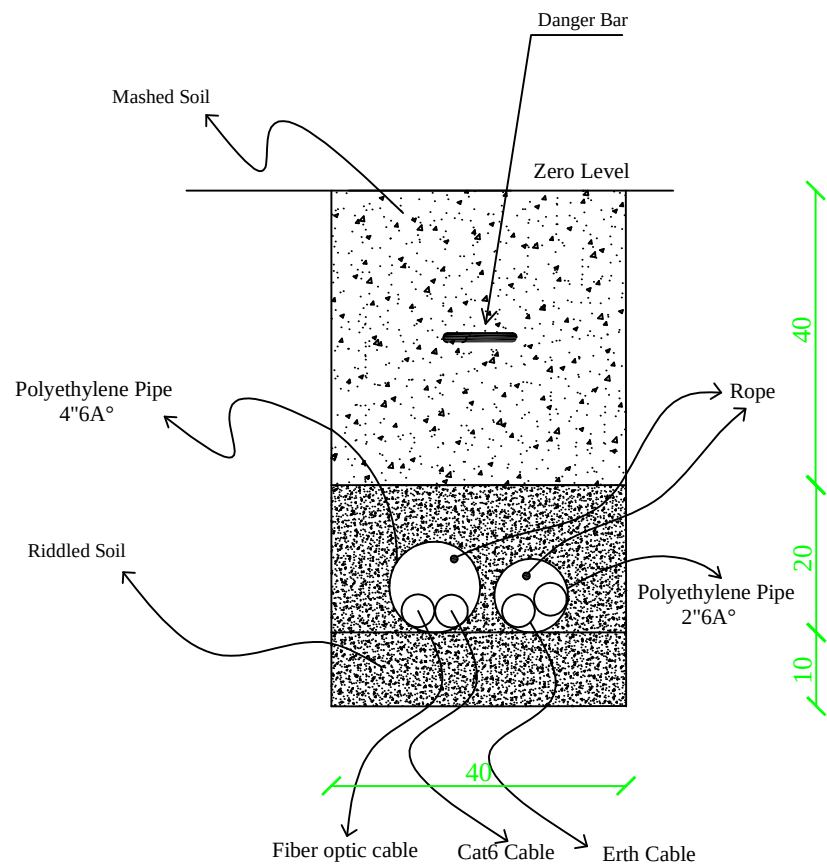
Description:

Season Eleventh - Earth System Details



- 1.If the wall is 2to 3meters closer to the well test kit on the wall ,and otherwise is the closest Access Valves.
- 2.The items used in the copper alloy is a copper test kit.

Season Twelfth - Drilling channel details Map

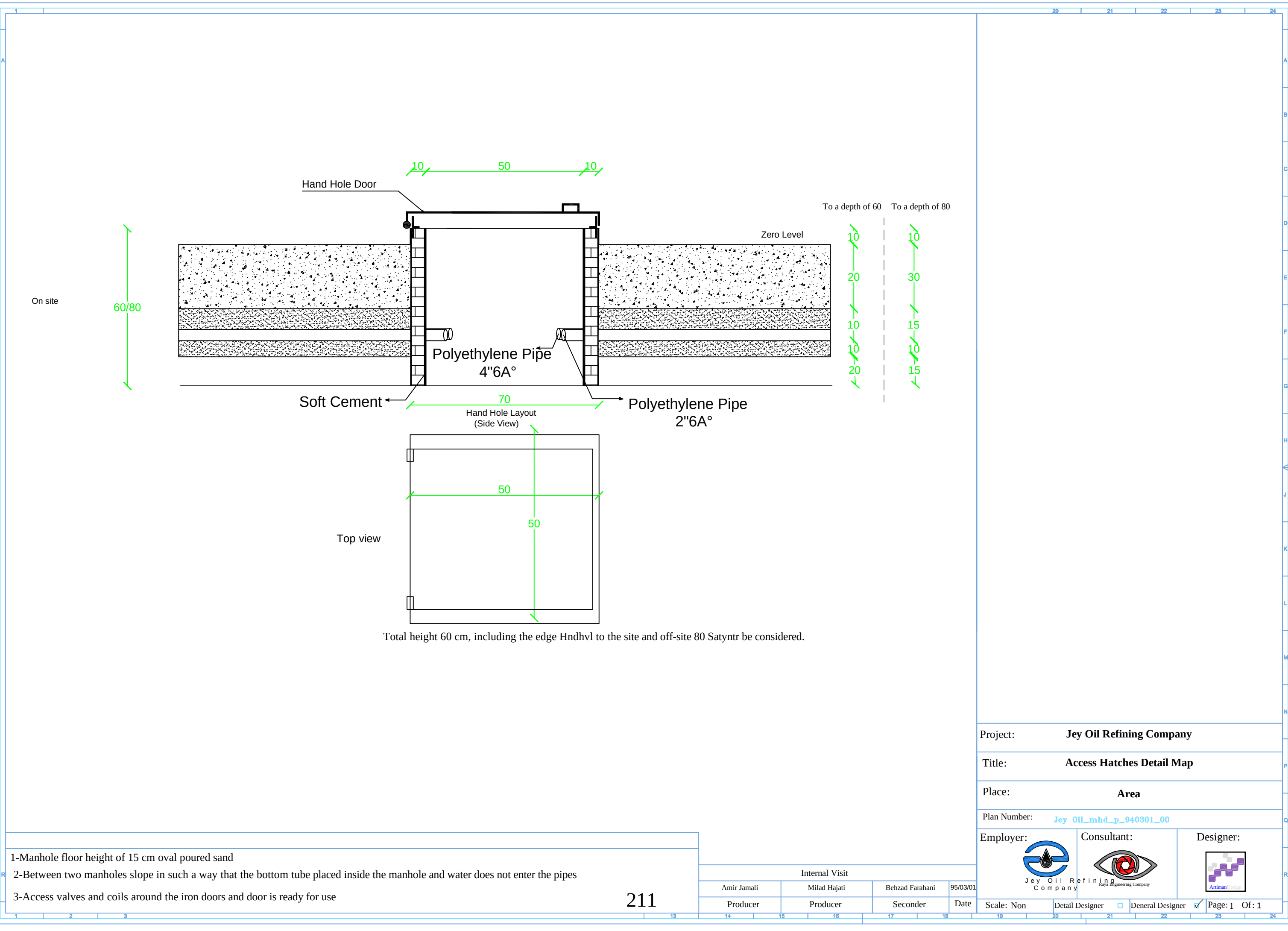


Direction Excavation Part of Entrance Site(doors)

Internal Visit			
Amir Jamali	Milad Hajati	Behzad Farahani	95/03/01
Producer	Producer	Seconder	Date

Project: Jey Oil Refining Company		
Title: Drilling Channel Details Map		
Place: Building Center		
Plan Number: Jey Oil_cnl_p_940301_00		
Employer: 	Consultant: 	Designer: 
Scale: 1:10	Detail Designer ☐	General Designer ☒
Page: 9 Of: 28		

Season Thirteenth - Access Hatches Detail Map



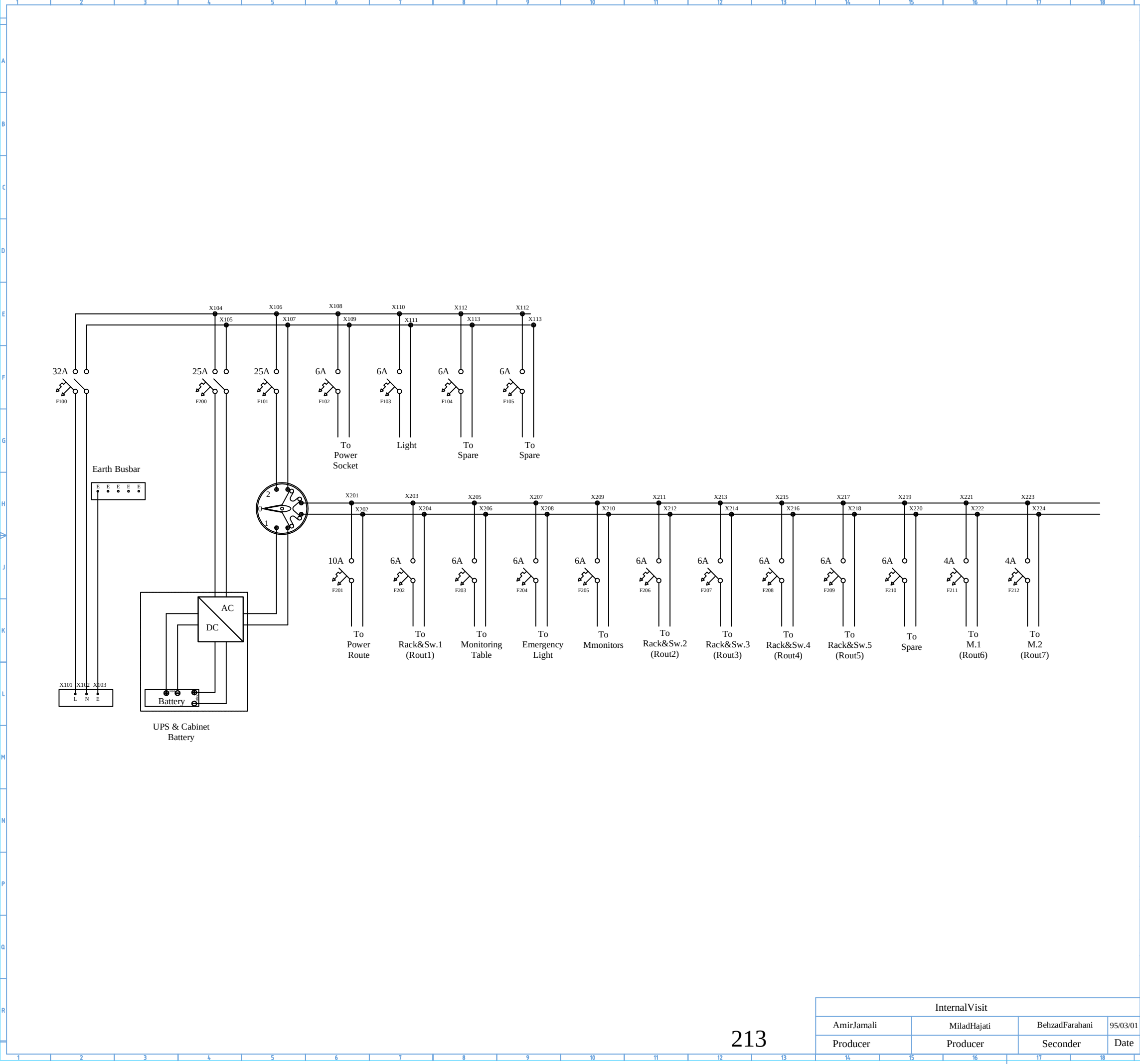
Total height 60 cm, including the edge Hndhvl to the site and off-site 80 Satyntn be considered.

- 1-Manhole floor height of 15 cm oval poured sand
- 2-Between two manholes slope in such a way that the bottom tube placed inside the manhole and water does not enter the pipes
- 3-Access valves and coils around the iron doors and door is ready for use

Project:		Jey Oil Refining Company	
Title:		Access Hatches Detail Map	
Place:		Area	
Plan Number:		Jey Oil_mhd_p_940301_00	
Employer:		Consultant:	Designer:
			
Scale: Non		Detail Designer ☐	General Designer ☒
		Page: 1 Of: 1	

Internal Visit			
Amir Jamali	Milad Hajati	Behzad Farahani	95/03/01
Producer	Producer	Seconder	Date

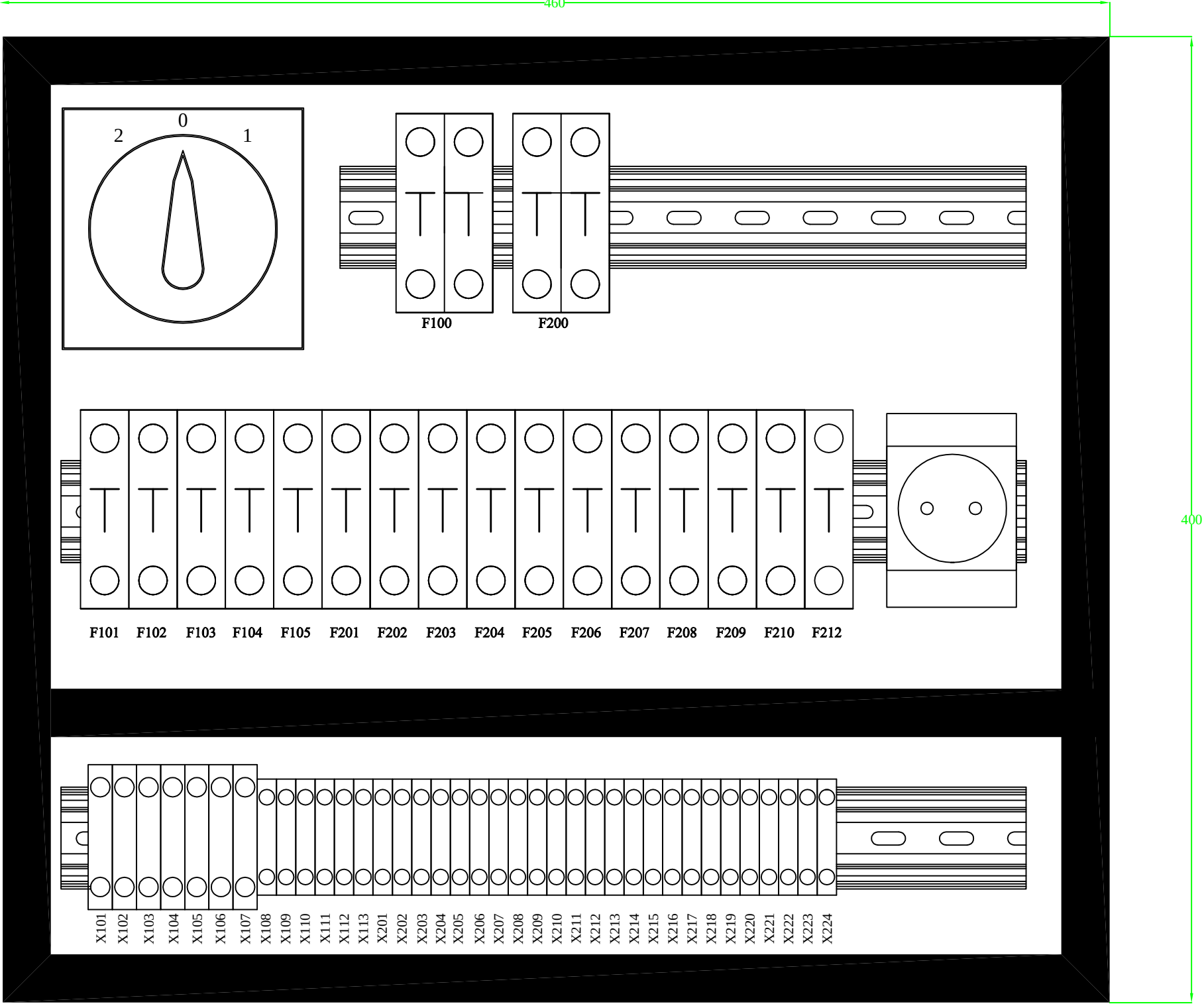
Season Fourteenth- map detail making the switch box



Map guide	
symbol	Description
	single_phase fuse
	selector switches
	Earth busbar
	Cabinet Battry
	UPS Power Inverter

Project:		Jey oil Refining Company	
Title:		Map Location Equipment	
Place:		Diagram of electronical Panel	
PlanNumber:		Jey Oil_ppd(planeA)_950301_00	
Employer:		Consultant:	Designer:
Scale: Non		DetailDesigner	DeneralDesigner
		☐	☒
Page:1		Of: 6	

InternalVisit			
AmirJamali	MiladHajati	BehzadFarahani	95/03/01
Producer	Producer	Seconder	Date



Map Guide

symbol	Description
	2-pole Miniature Fuse
	Miniature Fuse
	Terminal
	Power Socket

Project: Jey oil Refining Company

Title: Technical Schema Map Switchboard

Place: Control Room

PlanNumber: Jey Oil_ps(planeA)_950301_00

Employer:



Consultant:



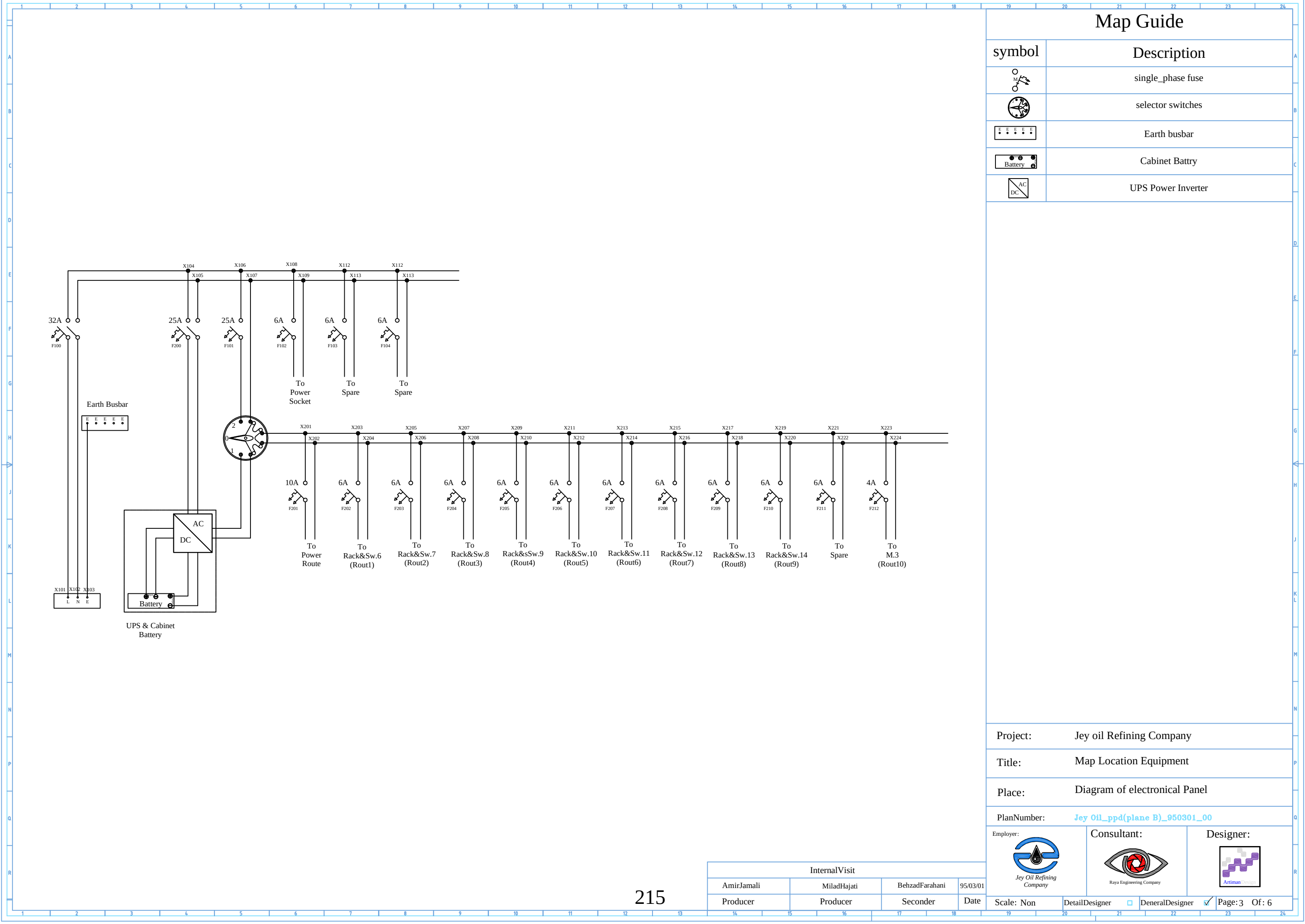
Designer:



InternalVisit

AmirJamali	MiladHajati	BehzadFarahani	95/03/01
Producer	Producer	Seconder	Date

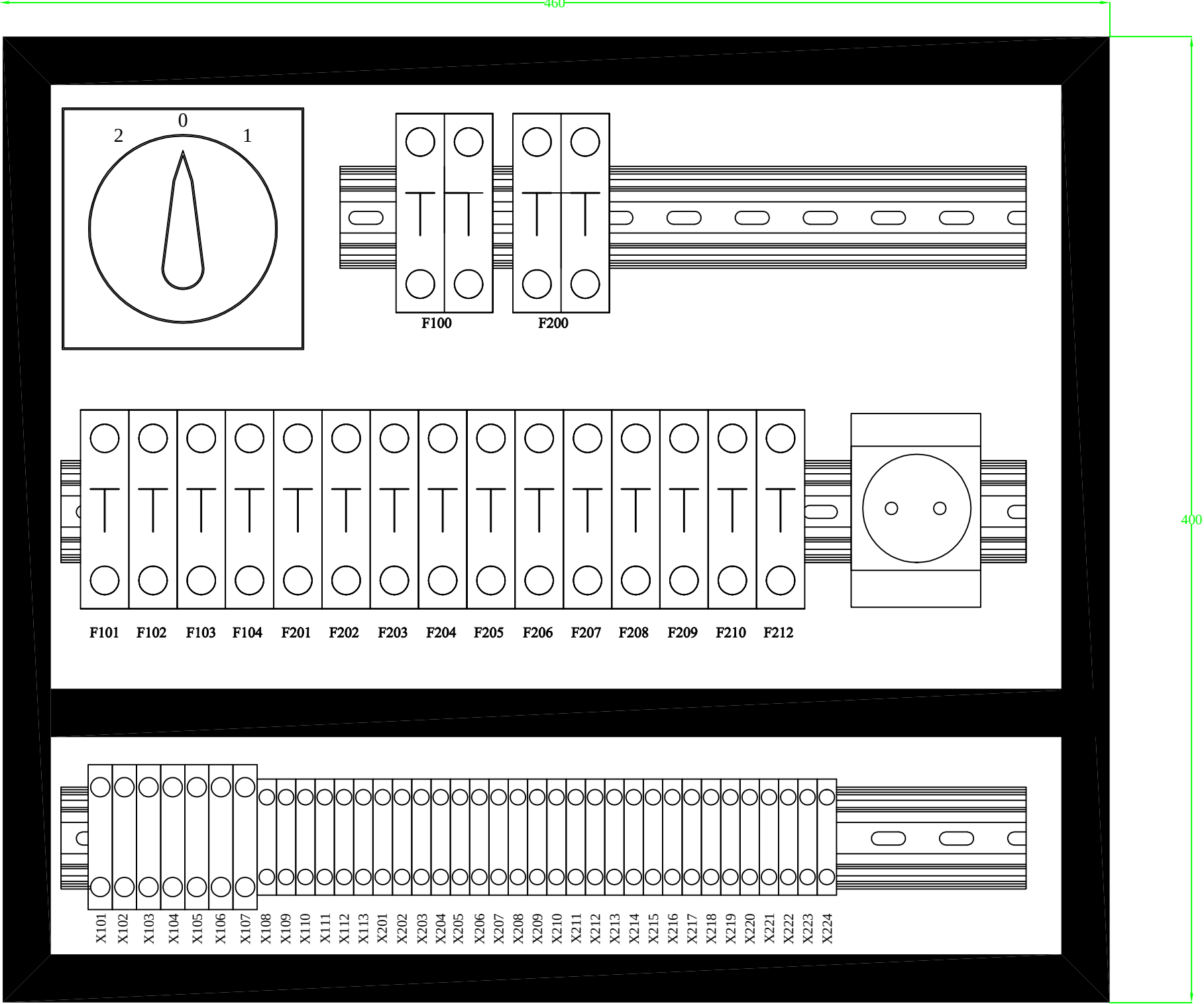
Scale: Non DetailDesigner ☐ DeneralDesigner ☒ Page: 2 Of: 6



Map Guide	
symbol	Description
	single_phase fuse
	selector switches
	Earth busbar
	Cabinet Battry
	UPS Power Inverter

Project:		Jey oil Refining Company
Title:		Map Location Equipment
Place:		Diagram of electronical Panel
PlanNumber:		Jey Oil_ppd(plane B)_950301_00
Employer:	Consultant:	Designer:
Scale: Non		DetailDesigner ☐ DeneralDesigner ☒ Page: 3 Of: 6

InternalVisit			
AmirJamali	MiladHajati	BehzadFarahani	95/03/01
Producer	Producer	Seconder	Date



Map Guide	
symbol	Description
	2-pole Miniature Fuse
	Miniature Fuse
	Terminal
	Power Socket

Project: Jey oil Refining Company

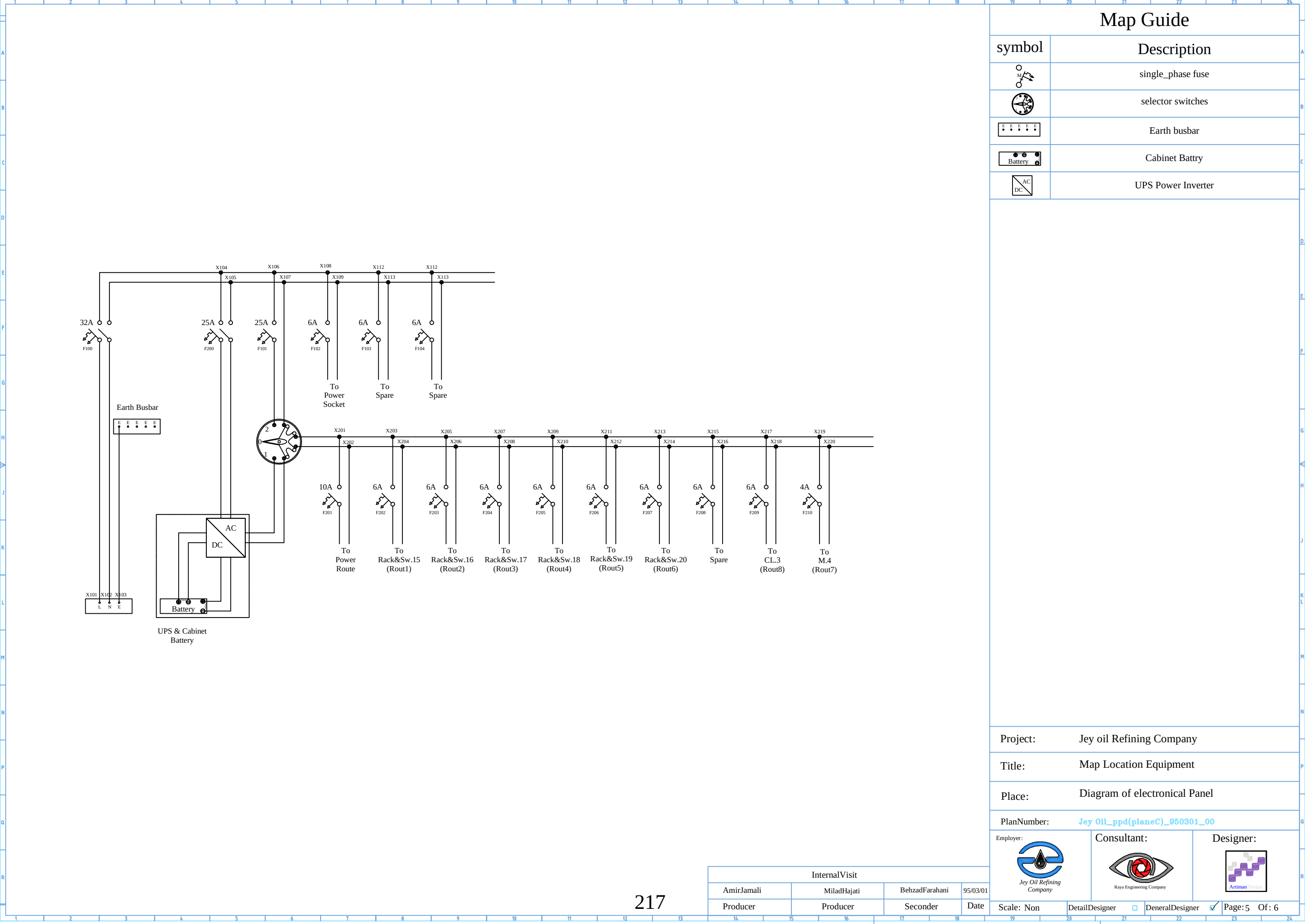
Title: Technical Schema Map Switchboard

Place: Drum Filling Building

PlanNumber: Jey Oil_ps(planeB)_950301_00



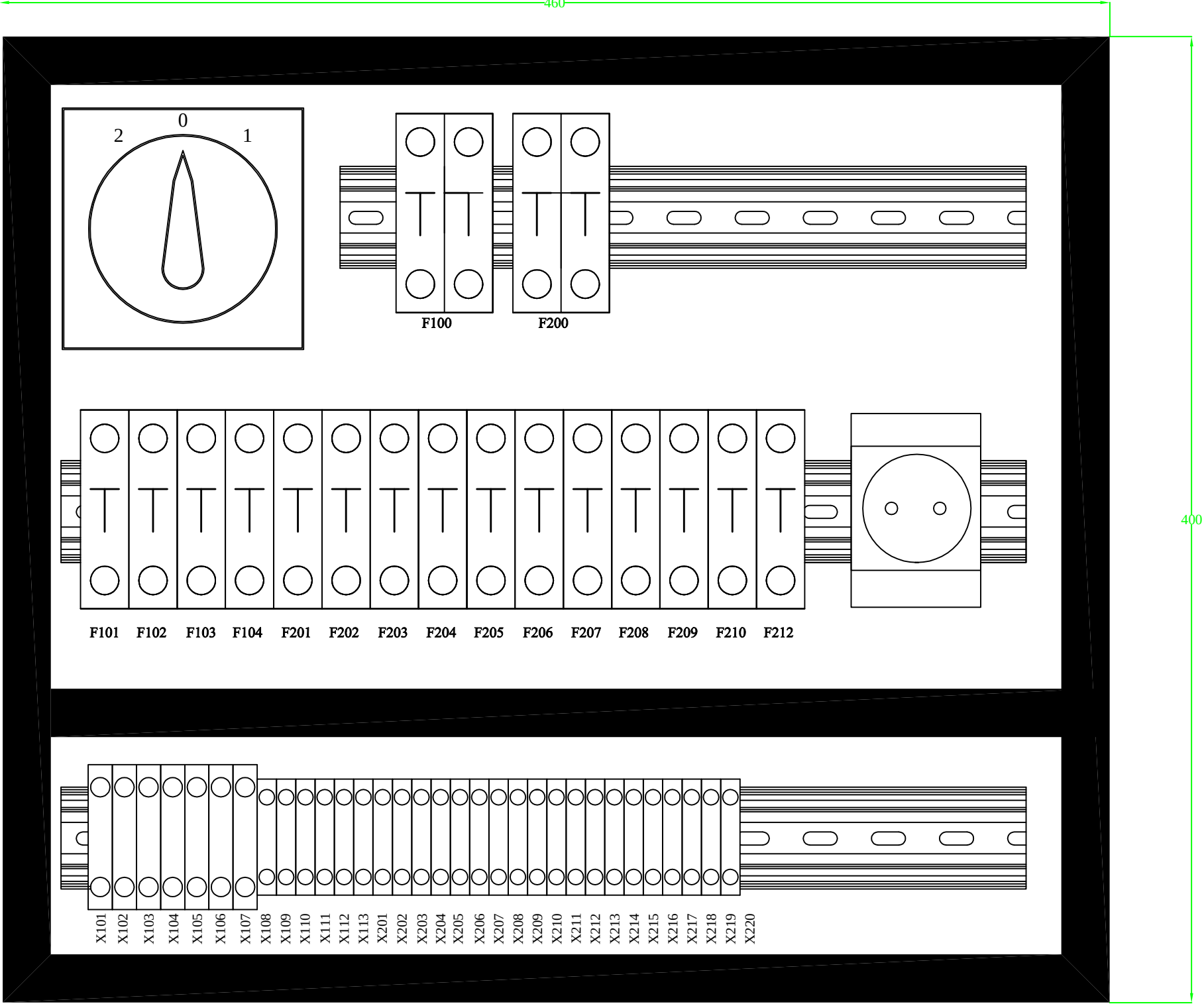
InternalVisit			
AmirJamali	MiladHajati	BehzadFarahani	95/03/01
Producer	Producer	Seconder	Date



Map Guide	
symbol	Description
	single_phase fuse
	selector switches
	Earth busbar
	Cabinet Battry
	UPS Power Inverter

Project:		Jey oil Refining Company	
Title:		Map Location Equipment	
Place:		Diagram of electronical Panel	
PlanNumber:		Jey Oil_ppd(planeC)_950301_00	
Employer:		Consultant:	Designer:
Scale: Non		DetailDesigner ☐	DeneralDesigner ☒
Page: 5		Of: 6	

InternalVisit			
AmirJamali	MiladHajati	BehzadFarahani	95/03/01
Producer	Producer	Seconder	Date



Map Guide	
symbol	Description
	2-pole Miniature Fuse
	Miniature Fuse
	Terminal
	Power Socket

Project:		Jey oil Refining Company	
Title:		Technical Schema Map Switchboard	
Place:		Control Room Production	
PlanNumber:		Jey Oil_ps(planeC)_950301_00	
Employer:	Consultant:	Designer:	
Scale: Non	DetailDesigner	☐ DeneralDesigner	☒ Page: 6 Of : 6

InternalVisit			
AmirJamali	MiladHajati	BehzadFarahani	95/03/01
Producer	Producer	Seconder	Date

Season Fifteenth- Calculations

List computing and fiber optic cable networks

Table Cabling Isfahan Jey Oil Refining Company

Area	Lable	End	First	Cable Type	Row	Area	Lable	End	First	Cable Type	Row
98	CAT6 From SW.12 To CAM215	CAM215	SW.12	CAT6	47	39	CAT6 From SW.2 To CAM101	CAM101	SW.2	CAT6	1
5	CAT6 From SW.13 To CAM216	CAM216	SW.13	CAT6	48	19	CAT6 From SW.2 To CAM102	CAM102	SW.2	CAT6	2
5	CAT6 From SW.13 To CAM217	CAM217	SW.13	CAT6	49	90	CAT6 From SW.2 To CAM103	CAM103	SW.2	CAT6	3
77	CAT6 From SW.12 To CAM218	CAM218	SW.12	CAT6	50	82	CAT6 From SW.2 To CAM104	CAM104	SW.2	CAT6	4
77	CAT6 From SW.12 To CAM219	CAM219	SW.12	CAT6	51	82	CAT6 From SW.2 To CAM105	CAM105	SW.2	CAT6	5
77	CAT6 From SW.12 To CAM220	CAM220	SW.12	CAT6	52	65	CAT6 From SW.2 To CAM106	CAM106	SW.2	CAT6	6
5	CAT6 From M-C.3 To CAM221	CAM221	M-C.3	CAT6	53	92	CAT6 From SW.1 To CAM107	CAM107	SW.1	CAT6	7
5	CAT6 From SW.14 To CAM222	CAM222	SW.14	CAT6	54	100	CAT6 From SW.1 To CAM108	CAM108	SW.1	CAT6	8
5	CAT6 From SW.14 To CAM223	CAM223	SW.14	CAT6	55	21	CAT6 From SW.1 To CAM109	CAM109	SW.1	CAT6	9
40	CAT6 From SW.11 To CAM224	CAM224	SW.11	CAT6	56	21	CAT6 From SW.1 To CAM110	CAM110	SW.1	CAT6	10
32	CAT6 From SW.7 To CAM225	CAM225	SW.7	CAT6	57	97	CAT6 From SW.3 To CAM111	CAM111	SW.3	CAT6	11
17	CAT6 From SW.8 To CAM226	CAM226	SW.8	CAT6	58	92	CAT6 From SW.4 To CAM112	CAM112	SW.4	CAT6	12
64	CAT6 From SW.8 To CAM227	CAM227	SW.8	CAT6	59	83	CAT6 From SW.4 To CAM113	CAM113	SW.4	CAT6	13
97.5	CAT6 From SW.8 To CAM228	CAM228	SW.8	CAT6	60	4	CAT6 From M-C.1 To CAM114	CAM114	M-C.1	CAT6	14
6	CAT6 From SW.10 To CAM229	CAM229	SW.10	CAT6	61	15	CAT6 From SW.5 To CAM115	CAM115	SW.5	CAT6	15
22	CAT6 From SW.12 To CAM230	CAM230	SW.12	CAT6	62	4	CAT6 From M-C.2 To CAM116	CAM116	M-C.2	CAT6	16
11	CAT6 From SW.12 To CAM231	CAM231	SW.12	CAT6	63	30.5	CAT6 From SW.2 To CAM117	CAM117	SW.2	CAT6	17
5	CAT6 From SW.17 To CAM301	CAM301	SW.17	CAT6	64	25	CAT6 From SW.2 To CAM118	CAM118	SW.2	CAT6	18
5	CAT6 From SW.17 To CAM302	CAM302	SW.17	CAT6	65	12	CAT6 From SW.2 To CAM119	CAM119	SW.2	CAT6	19
10	CAT6 From SW.16 To CAM303	CAM303	SW.16	CAT6	66	10	CAT6 From SW.2 To CAM120	CAM120	SW.2	CAT6	20
5	CAT6 From SW.16 To CAM304	CAM304	SW.16	CAT6	67	54	CAT6 From SW.2 To CAM121	CAM121	SW.2	CAT6	21
10	CAT6 From SW.15 To CAM305	CAM305	SW.15	CAT6	68	41	CAT6 From SW.1 To CAM122	CAM122	SW.1	CAT6	22
95	CAT6 From SW.15 To CAM306	CAM306	SW.15	CAT6	69	67	CAT6 From SW.1 To CAM123	CAM123	SW.1	CAT6	23
50	CAT6 From SW.20 To CAM307	CAM307	SW.20	CAT6	70	20	CAT6 From SW.1 To CAM124	CAM124	SW.1	CAT6	24
50	CAT6 From SW.20 To CAM308	CAM308	SW.20	CAT6	71	15	CAT6 From SW.3 To CAM125	CAM125	SW.3	CAT6	25
15	CAT6 From SW.20 To CAM309	CAM309	SW.20	CAT6	72	15	CAT6 From SW.4 To CAM126	CAM126	SW.4	CAT6	26
5	CAT6 From SW.18 To CAM310	CAM310	SW.18	CAT6	73	46	CAT6 From SW.4 To CAM127	CAM127	SW.4	CAT6	27
5	CAT6 From SW.18 To CAM311	CAM311	SW.18	CAT6	74	46	CAT6 From SW.4 To CAM128	CAM128	SW.4	CAT6	28
15	CAT6 From SW.19 To CAM312	CAM312	SW.19	CAT6	75	44	CAT6 From SW.4 To CAM129	CAM129	SW.4	CAT6	29
15	CAT6 From SW.19 To CAM313	CAM313	SW.19	CAT6	76	44	CAT6 From SW.4 To CAM130	CAM130	SW.4	CAT6	30
5	CAT6 From M-C.4 To CAM314	CAM314	M-C.4	CAT6	77	34	CAT6 From SW.1 To CAM131	CAM131	SW.1	CAT6	31
8	CAT6 From SW.15 To CAM315	CAM315	SW.15	CAT6	78	26	CAT6 From SW.1 To CAM132	CAM132	SW.1	CAT6	32
6	CAT6 From SW.20 To CAM316	CAM316	SW.20	CAT6	79	92	CAT6 From SW.7 To CAM201	CAM201	SW.7	CAT6	33
6	CAT6 From SW.20 To CAM317	CAM317	SW.20	CAT6	80	100	CAT6 From SW.6 To CAM202	CAM202	SW.6	CAT6	34
115	FIBER From SW.5 To M-C.1	M-C.1	SW.5	FIBER	81	57	CAT6 From SW.6 To CAM203	CAM203	SW.6	CAT6	35
284	FIBER From SW.5 To M-C.2	M-C.2	SW.5	FIBER	82	5	CAT6 From SW.6 To CAM204	CAM204	SW.6	CAT6	36
225	FIBER From SW.13 To M-C.3	M-C.3	SW.13	FIBER	83	57	CAT6 From SW.6 To CAM205	CAM205	SW.6	CAT6	37
572	FIBER From SW.15 To M-C.4	M-C.4	SW.15	FIBER	84	98	CAT6 From SW.7 To CAM206	CAM206	SW.7	CAT6	38
90	CAT6 From SW.3 To SW.4	SW.4	SW.3	CAT6	85	22	CAT6 From SW.10 To CAM207	CAM207	SW.10	CAT6	39
213	FIBER From SW.6 To SW.7	SW.7	SW.6	FIBER	86	24	CAT6 From SW.10 To CAM208	CAM208	SW.10	CAT6	40
90	CAT6 From SW.8 To SW.7	SW.7	SW.8	CAT6	87	54	CAT6 From SW.9 To CAM209	CAM209	SW.9	CAT6	41
183	FIBER From SW.9 To SW.12	SW.12	SW.9	FIBER	88	64	CAT6 From SW.9 To CAM210	CAM210	SW.9	CAT6	42
110	CAT6 From SW.13 To SW.12	SW.12	SW.13	CAT6	89	54	CAT6 From SW.9 To CAM211	CAM211	SW.9	CAT6	43
172	FIBER From SW.14 To SW.11	SW.11	SW.14	FIBER	90	64	CAT6 From SW.9 To CAM212	CAM212	SW.9	CAT6	44
18	CAT6 From CL.1 To SW.1	SW.1	CL.1	CAT6	91	5	CAT6 From SW.9 To CAM213	CAM213	SW.9	CAT6	45
10	CAT6 From CL.2 To SW.12	SW.12	CL.2	CAT6	92	5	CAT6 From SW.9 To CAM214	CAM214	SW.9	CAT6	46
10	CAT6 From CL.3 To SW.15	SW.15	CL.3	CAT6	93						

List of computing power cable

Detailed Table And Card Power Cable UPS 2								Detailed Table And Card Power Cable UPS 1							
Jey Oil Refining Company								Jey Oil Refining Company							
Number Ruth	Area Cable	Lable	End	First	Cable Size	Cable Type	Row	Number Ruth	Area Cable	Lable	End	First	Cable Size	Cable Type	Row
0	5	PC 4X6(R0) From MPB To PB	PB	MPB	4X6	Power Cable	1	0	26	PC 4X6(R0) From MPB To PB	PB	MPB	4X6	Power Cable	1
1	540	PC 3X2/5(R1) From PB To SW.6	SW.6	PB	3X2/5	Power Cable	2	1	10	PC 3X2/5(R1) From PB To SW.1	SW.1	PB	3X2/5	Power Cable	2
2	316	PC 3X2/5(R2) From PB To SW.7	SW.7	PB	3X2/5	Power Cable	3	2	153	PC 3X2/5(R2) From PB To SW.2	SW.2	PB	3X2/5	Power Cable	3
3	342	PC 3X2/5(R3) From PB To SW.8	SW.8	PB	3X2/5	Power Cable	4	3	170	PC 3X2/5(R3) From PB To SW.3	SW.3	PB	3X2/5	Power Cable	4
4	500	PC 3X2/5(R4) From PB To SW.9	SW.9	PB	3X2/5	Power Cable	5	4	202	PC 3X2/5(R4) From PB To SW.4	SW.4	PB	3X2/5	Power Cable	5
5	5	PC 3X2/5(R5) From PB To SW.10	SW.10	PB	3X2/5	Power Cable	6	5	382	PC 3X2/5(R5) From PB To SW.5	SW.5	PB	3X2/5	Power Cable	6
6	180	PC 3X2/5(R6) From PB To SW.11	SW.11	PB	3X2/5	Power Cable	7	6	400	PC 3X2/5(R6) From PB To M-C.1	M-C.1	PB	3X2/5	Power Cable	7
7	320	PC 3X2/5(R7) From PB To SW.12	SW.12	PB	3X2/5	Power Cable	8	7	561	PC 3X2/5(R7) From PB To M-C.2	M-C.2	PB	3X2/5	Power Cable	8
8	365	PC 3X2/5(R8) From PB To SW.13	SW.13	PB	3X2/5	Power Cable	9	8	20	PC 3X2/5(R8) From PB To CL.1	CL.1	PB	3X2/5	Power Cable	9
9	350	PC 3X2/5(R9) From PB To SW.14	SW.14	PB	3X2/5	Power Cable	10	ERT	25	EC 1X50(RERT) From PB To ERT	ERT	PB	1X50	Earth Cable	10
10	590	PC 3X2/5(R10) From PB To M-C.3	M-C.3	PB	3X2/5	Power Cable	11	ERT	20	EC 1X50(RERT) From FIRST To END	END	FIRST	1X50	Earth Cable	11
11	315	PC 3X2/5(R11) From PB To CL.2	CL.2	PB	3X2/5	Power Cable	12	1898 The Total length Of The Power Cord 3x2/5 26 The Total length Of The Power Cord 4x6							
ERT	50	EC 1X50(RERT) From PB To ERT	ERT	PB	1X50	Earth Cable	13								
ERT	20	EC 1X50(RERT) From FIRST To END	END	FIRST	1X50	Earth Cable	14								

3823	The Total length Of The Power Cord 3x2/5
5	The Total length Of The Power Cord 4x6
50	Total Area Of The Earth Cable 1x50
20	Area Earth Cables Wire 1x50

Detailed Table And Card Power Cable UPS 3							
Jey Oil Refining Company							
Number Ruth	Area Cable	Lable	End	First	Cable Size	Cable Type	Row
0	10	PC 4X6(R0) From MPB To PB	PB	MPB	4X6	Power Cable	1
1	8	PC 3X2/5(R1) From PB To SW.15	SW.15	PB	3X2/5	Power Cable	2
2	206	PC 3X2/5(R2) From PB To SW.16	SW.16	PB	3X2/5	Power Cable	3
3	310	PC 3X2/5(R3) From PB To SW.17	SW.17	PB	3X2/5	Power Cable	4
4	413	PC 3X2/5(R4) From PB To SW.18	SW.18	PB	3X2/5	Power Cable	5
5	496	PC 3X2/5(R5) From PB To SW.19	SW.19	PB	3X2/5	Power Cable	6
6	150	PC 3X2/5(R6) From PB To SW.20	SW.20	PB	3X2/5	Power Cable	7
7	597	PC 3X2/5(R7) From PB To M-C.4	M-C.4	PB	3X2/5	Power Cable	8
8	12	PC 3X2/5(R8) From PB To CL.3	CL.3	PB	3X2/5	Power Cable	9
ERT	42	EC 1X50(RERT) From PB To ERT	ERT	PB	1X50	Earth Cable	10
ERT	20	EC 1X50(RERT) From FIRST To END	END	FIRST	1X50	Earth Cable	11

2192	The Total length Of The Power Cord 3x2/5
10	The Total length Of The Power Cord 4x6
42	Total Area Of The Earth Cable 1x50
20	Area Earth Cables Wire 1x50

Calculate the power consumption of the system

Calculate The Power Consumption Of Electronic Protection System Gey Oil Refinery-Plane A					Calculate The Power Consumption Of Electronic Protection System Gey Oil Refinery-Plane B				
Row	Description Of Consumer Devices	Number	The Power Consumption (Watts)	The total power consumption (Watts)	Row	Description Of Consumer Devices	Number	The Power Consumption (Watts)	The total power consumption (Watts)
1	Server	1	500	500	1	Switch (A)	0	190	0
2	Switch (A)	1	190	190	2	Switch (B)	4	120	480
3	Switch (B)	4	120	480	3	Switch (C)	4	15	60
4	Switch (C)	0	15	0	4	Switch (D)	1	5	5
5	Switch (D)	1	5	5	5	Media Converter	1	3	3
6	Media Converter	2	3	6	6	Camera Type (A)	1	22	22
7	Camera Type (A)	3	22	66	7	Camera Type (B)	10	13	130
8	Camera Type (B)	1	13	13	8	Camera Type (C)	1	13	13
9	Camera Type (C)	2	13	26	9	Camera Type (D)	3	13	39
10	Camera Type (D)	7	13	91	10	Camera Type (E)	0	13	0
11	Camera Type (E)	1	13	13	11	Camera Type (F)	9	13	117
12	Camera Type (F)	10	13	130	12	Camera Type (G)	1	13	13
13	Camera Type (G)	1	13	13	13	Camera Type (I)	0	5	0
14	Camera Type (I)	1	5	5	14	Camera Type (J)	0	5	0
15	Camera Type (J)	1	5	5	15	Camera Type (K)	1	5	5
16	Camera Type (K)	2	5	10	16	Camera Type (L)	3	5	15
17	Camera Type (L)	1	5	5	17	Camera Type (M)	2	4	8
18	Camera Type (M)	0	4	0	18	Camera Type (N)	0	4	0
19	Camera Type (N)	2	4	8	19	Client	1	450	450
20	Client	1	450	450	20	9 rack unit with depth 60	4	5	20
21	22-inch monitor	4	90	360	21	36 rack unit with depth 100	0	20	0
22	50-inch monitor	6	100	600	Total power consumption of electronic protection system				1380
23	Emergency lighting (server room)	1	144	144	The total power consumption by a factor of 20%				1656
24	9 rack unit with depth 60	5	5	25	Calculate The Power Consumption Of Electronic Protection System Gey Oil Refinery-Plane C				
25	36 rack unit with depth 100	1	20	20	Row	Description Of Consumer Devices	Number	The Power Consumption (Watts)	The total power consumption (Watts)
Total power consumption of electronic protection system				3165	1	Switch (A)	1	190	190
The total power consumption by a factor of 20%				3798	2	Switch (B)	1	120	120
					3	Switch (C)	0	15	0
					4	Switch (D)	5	5	25
					5	Media Converter	1	3	3
					6	Camera Type (A)	0	22	0
					7	Camera Type (B)	7	13	91
					8	Camera Type (C)	2	13	26
					9	Camera Type (D)	3	13	39
					10	Camera Type (E)	0	13	0
					11	Camera Type (F)	2	13	26
					12	Camera Type (G)	0	13	0
					13	Camera Type (I)	0	5	0
					14	Camera Type (J)	1	5	5
					15	Camera Type (K)	2	5	10
					16	Camera Type (L)	0	5	0
					17	Camera Type (M)	0	4	0
					18	Camera Type (N)	0	4	0
					19	Client	1	450	450
					20	9 rack unit with depth 60	1	5	5
					21	22 rack unit with depth 100	1	20	20
					Total power consumption of electronic protection system				1010
					The total power consumption by a factor of 20%				1212