

**WEST HARTFORD TOWN COUNCIL MEETING
MAY 26, 2015
LEGISLATIVE CHAMBER**

ITEM #1: MEETING CALLED TO ORDER - 7:35 P.M.

President Slifka: Okay, call the Council meeting to order and begin with the Pledge of Allegiance.

ITEM #2: PLEDGE OF ALLEGIANCE

President Slifka: Okay. Can I have a roll call, please, Ms. Labrot?

ITEM #3: ROLL CALL - ALL COUNCILORS PRESENT.

President Slifka: Thank you. We go to number 4, Mrs. Cantor.

ITEM #4: APPROVAL OF MINUTES - RECEIVED

Councilor Cantor: Number 4. I move that we approve Minutes of Public Hearing regarding 160 Simsbury Road.

Councilor Kindall: Second.

President Slifka: Motion's made and seconded. Any discussion? Seeing none. All those in favor?

All: Aye.

President Slifka: Those opposed? Motion carries. We're up to Public Forum.

ITEM #5: PUBLIC FORUM:

President Slifka: Nobody had signed up so is there anybody who did not sign up who wished to speak to an item on the Agenda that was not otherwise subject of a public hearing? Okay. Seeing none, we will go to 6, Report from the Town Manager.

ITEM #6: REPORT OF TOWN MANAGER:

President Slifka: Mr. Van Winkle, you have a prop. We need to have you turn your mic on.

Mr. Van Winkle: Yes. No energy to the mic. So some show and tell today. The West Hartford Clean Energy Task Force, working with the Connecticut Clean Energy, has put together a program and they're gonna have a booth at our, at our Celebrate West Hartford, where you can

go and purchase four LED lights for \$10. Half of that money will go to the Town that Cares, so you're paying \$5 for four LED lights and you're gonna pay, give \$5 to the Town that Cares. This program will be run starting June 6th through the end of the month for someone who wants to buy those lights and do it. So, in front of me, I have a demonstration that they have and one light is your basic incandescent light and one light is your LED light. This incandescent light right now is using 40 watts of power to light that up. The LED light is using 8 so that's substantially less light than what you might be burning in your own home right now in a closet, anywhere in your home. LED lights save you money, reduce the cost of energy in Connecticut because we're able to reduce the demand for energy, and if you buy these four LED lights, you can save yourself some significant dollars. And they're gonna be doing a whole demonstration of how to save money on energy at our booth at Celebrate and so if you're interested, stop by our booth and talk to our people about energy. As you know, we've been doing investments in conservation since the 70s really, since the oil crisis of the 70s, and, and this year you approved an additional 4.3 million dollars for energy savings that have a very quick payback for us and then we reduce those energy costs forever and so we're doing a lot in West Hartford as a public agency to reduce our cost. And one of the things that came across the desk the other day was about solar energy. Every morning, that fusion generator rises over the horizon and sends us sunlight and that, it has been estimated that there is enough energy coming out of the sun to the earth in one hour to satisfy our global, our global electric demand. Our global electric demand is 23,000 terawatts and the sun in one hour sends us enough energy to do that and yet solar energy makes up only one-half of 1% of our energy generation. In West Hartford, we have seen a number of homes, we did a special program recently, and a number of homes have been converting over to solar. We've adopted some zoning ordinance changes to allow additional solar to be installed. And in the State of Connecticut today, we rank 3rd in the number of solar units installed. Somehow, Durham is number one. Now, how Durham got to be the number one, I have no idea but West Hartford, Durham, Fairfield, and West Hartford have more solar systems installed in our community than any community in the State of Connecticut. So there's still opportunities for solar and we're gonna, at the same booth, we're gonna be talking about solar energy and how to, to advance that. And the solar energy has been changing dramatically. The cost of the cells have dropped dramatically. The efficiencies have gone up dramatically, so even here in, in cold and sometimes snowy Connecticut, solar energy still can make a significant payback, given the tax credits and the other kinds of things that are available to you. So that's my energy story. I did wanna say that our trash is delayed this week one day because of Memorial Day so don't put it out. If you have trash tomorrow morning, Wednesday, don't put it out tonight. It's gonna be on Thursday. Its advanced one day. Our last round of spring yard waste cleanup is June 8th – 12th so if you're still working in the garden and cleaning up that garden, you can put it out that week and we will pick it up on your regular garbage day. You need to put it, wrap those, those sticks into bundles and put the detritus of your garden in a recyclable bag. Now, the Police Department has its own Facebook page and I don't have it here on my list but they have their own Facebook, West Hartford Police Department, and you can get a lot of information about what's happening in West Hartford, how to contact the Police Department over all sorts of things that we do besides grabbing bad guys, so if you go online, you can make, you can friend our Facebook page and get regular communications from our Police Department. That's really all I have. If you have any questions, I'd be glad to answer those.

President Slifka: Thank you, Mr. Van Winkle. Are there questions for the Manager? Okay. I guess we were just blown away by the presentation. We're speechless. Okay. So with that, then we go to number 7, Mrs. Cantor.

ITEM #7: CONSIDERATION OF CONSENT CALENDAR – ITEMS 13, 14, 19-22 TO RECEIVE

Councilor Cantor: Number 7. I move that we place items 13 and 14, 19-22 on a consent calendar.

Councilor Kindall: Second.

President Slifka: Motion's made and seconded. All those in favor?

All: Aye.

President Slifka: Those opposed? Motion carries. Okay, under Unfinished Business, number 8.

UNFINISHED BUSINESS:

ITEM #8: RESOLUTION AUTHORIZING SUBMISSION OF THE NEIGHBORHOOD ASSISTANCE GRANT APPLICATION

ADOPTED, VOTE 9-0

Councilor Cantor: Number 8, Resolution Authorizing Submission of the Neighborhood Assistance Grant Application. I move that we adopt.

Councilor Kindall: Second.

President Slifka: Motion's made and seconded. Mr. Van Winkle, could you give a recap of the summary you provided in the public hearing a short time ago?

Mr. Van Winkle: Yes. This is...sorry. This is a State legislation that gives companies tax credits for donations to nonprofits. In order to get these tax credits, the nonprofit has to work with a, a donor, who is looking to make a donation to that agency for a specific project. Once they have that donor and the project, they submit that to our Department of Social Services and you have a, a list of nineteen projects in front of you, which are deemed eligible for this tax credit, which we are requesting tonight that you approve that list of nineteen so that we can send it on to the Department of Revenue Services for their consideration of the tax credit program.

President Slifka: Thank you. Is there any discussion? Mrs. Hall, go ahead.

Councilor Hall: Ron, do you know were there tax credits available that, that were not used? I'm just wondering whether there's, whether all of our not-for-profit agencies are aware of this program and is there anything we can do to make sure that?

Mr. Van Winkle: It's been around a long time, this program, and there are nonprofit agencies that know it well and use it, that have worked with donors to make sure that they're eligible for these sorts of things, so I think it's somewhat well-known. There's a limited amount. I don't think there are ever tax credits that aren't used. There is, it's a limited amount of tax credits that are provided for in the State budget each year and so those are allocated based on the requests that they have so perhaps we could be, do more to kind of advertise to let us know. I mean, we have everything from American School for the Deaf and local synagogues and Playhouse on Park, the Bridge, all institutions that work hard to raise money for their own costs.

Councilor Hall: Well, maybe just by discussing it tonight might...

Mr. Van Winkle: Yup.

Councilor Hall: ...light a few lightbulbs and.

Mr. Van Winkle: Lightbulbs. Thank you.

President Slifka: All right. All right. Any other puns? Okay. All right. If there's nothing further, then all those in favor?

All: Aye.

President Slifka: Those opposed? Motion carries. Number 9 under New Business.

NEW BUSINESS:

ITEM #9: APPLICATION ON BEHALF OF THE METROPOLITAN DISTRICT COMMISSION, THE CONTRACT PURCHASER UNDER AGREEMENT WITH TRIUMPH ENGINE CONTROL SYSTEMS, LLC OF AN APPROXIMATELY 67,977 SQ. FT. PARCEL FRONTING ON TALCOTT ROAD (1 CHARTER OAK BOULEVARD) REQUESTING DESIGNATION OF A NEW SPECIAL DEVELOPMENT DISTRICT, A CHANGE TO THE CURRENT UNDERLYING ZONING DISTRICT FROM MULTIFAMILY RESIDENTIAL DISTRICT (RM-3) TO A RESTRICTED INDUSTRIAL DISTRICT (IR), AND THE APPROVAL TO CONSTRUCT A TUNNEL ACCESS SHAFT AND PERMANENT AIR TREATMENT FACILITY IN CONJUNCTION WITH THE SOUTH HARTFORD CONVEYANCE AND STORAGE TUNNEL PROJECT

(See Attachment A)

SET FOR PUBLIC HEARING ON JULY 21, 2015, AT 6:00 P.M., REFERRED TO TPZ AND DRAC

Councilor Cantor: Number 9, Application on behalf of the Metropolitan District Commission, the contract purchaser under agreement with Triumph Engine Control Systems, LLC of an approximately 67,977 square foot parcel fronting on Talcott Road requesting designation of a new special development district, a change to the current underlying zoning district from Multifamily Residential District (RM-3) to a Restricted Industrial District (IR), and the approval to construct a tunnel access shaft and permanent air treatment facility in conjunction with the South Hartford Conveyance and Storage Tunnel Project. I move that we set for public hearing July 21st at 6:00 p.m. and refer to TPZ and DRAC.

Councilor Kindall: Second.

President Slifka: Okay. Motion's made and seconded. Any discussion? Okay. All those in favor?

All: Aye.

President Slifka: Those opposed? Motion carries. Number 10.

ITEM #10: RESOLUTION SETTING TOWN COUNCIL MEETING DATES FOR JULY 21 AND AUGUST 18, 2015

ADOPTED

WHEREAS the Town Council rules call for a single Council meeting in July and August;

NOW THEREFORE BE IT RESOLVED that the July meeting is set for July 21, 2015 and the August meeting is set for August 18, 2015 both at 6:30 p.m. in the Legislative Chamber, Room 314.

Councilor Cantor: Resolution Setting Town Council Meeting Dates for July 21 and August 18, 2015. I move that we adopt.

Councilor Kindall: Second.

President Slifka: Motion made and seconded. It kinda speaks for itself but for those who don't know, the Council meets twice a month per the Charter except for July, August, and December and around this time of year, we do a survey to figure out who's gonna be around when and try to find a date that works for most of us, if not everybody, and to set one meeting for July and one meeting for August, regular meeting, and that, this Resolution would accomplish that. Is there any further discussion? Okay. All those in favor?

All: Aye.

President Slifka: Those opposed? Motion carries. Number 11, Mrs. Cantor.

ITEM #11: RESOLUTION TO APPROPRIATE \$300,000 IN THE CAPITAL AND NON-RECURRING EXPENDITURE FUND FOR THE FINANCING OF THE 2016 REVALUATION CAPITAL PROJECT

ADOPTED

WHEREAS, in accordance with Connecticut General Statutes, the Town will conduct its mandated property revaluation for the Grand List of October 1, 2016 in order to ensure uniformity in real property valuations, and

WHEREAS, the total estimated cost to perform this revaluation is approximately \$600,000, an amount which will be incurred over a two-year period, and

WHEREAS, one-half of the total cost has been funded and the balance of the funding (\$300,000) is now required in order to execute contracts with professional service firms who will assist with commercial and residential property revaluation, and

WHEREAS, funds are available in the Capital Non-Recurring Expenditure (CNRE) Fund and the Town desires to utilize available fund balance to finance the 2016 Property Revaluation capital project in the amount of \$300,000,

NOW, THEREFORE, BE IT RESOLVED that the Town Council of the Town of West Hartford does hereby authorize the use of \$300,000 of available fund balance in the CNRE Fund to finance the 2016 Property Revaluation capital project and amends the fiscal year 2014-2015 budgets of the CNRE and Capital Projects Funds as follows:

Capital Non-Recurring Expenditure Fund

Increase Estimated Revenues

33-910800-30506-9399	Fund Balance	\$300,000
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Increase Appropriations

33-910800-30506-4058	Transfer to Capital Projects Fund	\$300,000
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Capital Projects Fund

Increase Estimated Revenues

41-891530-80001-9389	Transfer from CNRE	\$300,000
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Increase Appropriations

41-891530-80001-3025	Professional Services	\$300,000
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Councilor Cantor: Resolution to Appropriate \$300,000 in the Capital and Non-Recurring Expenditure Fund for the Financing of the 2016 Revaluation Capital Project. I move that we adopt.

Councilor Kindall: Second.

President Slifka: Motion's made and second. Mr. Van Winkle, over to you.

Mr. Van Winkle: 2016 is the year of our revaluation of all property in the Town of West Hartford. We do that using staff and internal and some outside consultants. Revaluation costs us about half a million dollars to process and analyze all the data in the community. We appropriated in our last fiscal year, 2014, we appropriated money for the surplus to begin the process of that revaluation and this is the second half of that money or 60% of that money that is allocated for the purpose of conducting our revaluation, which we are in progress of right now.

President Slifka: Okay. Any further discussion? Okay. All those in favor?

All: Aye.

President Slifka: Those opposed? Motion carries. Number 12.

ITEM #12: RESOLUTION TO APPROPRIATE \$310,000 IN THE FISCAL YEAR 2014-2015 CEMETERY TRUST FUND BUDGET AND ESTABLISH A PROJECT IN THE FISCAL YEAR 2014-2015 CAPITAL PROJECTS FUND BUDGET FOR IMPROVEMENTS TO FAIRVIEW CEMETERY

ADOPTED

WHEREAS, the Cemetery Trust Fund was established to account for donations, sale of lots, charges for services and other resources provided for the care, maintenance and improvement of Town owned cemeteries, and

WHEREAS, Fairview Cemetery is in need of various capital improvements with an estimated cost of \$310,000, and

WHEREAS, these improvements consist of repairing the office roof, reconfiguring and remodeling the office space, and renovating the on-site chapel to make it a useable space for services, and

WHEREAS, there are sufficient funds in the Reserve for Permanent Account of the Cemetery Fund to finance said improvements and such capital expenditures are an allowable cost under the terms of the Trust Fund,

NOW, THEREFORE, BE IT RESOLVED BY THE TOWN COUNCIL OF THE TOWN OF WEST HARTFORD that \$310,000 of the Reserve for Permanent Account in the Cemetery Trust Fund will be appropriated to fund a capital project in the Capital Projects Fund for improvements to the office and chapel at Fairview Cemetery and the fiscal year 2014-2015 budgets of the Cemetery Trust Fund and Capital Projects Fund are hereby amended as follows:

Cemetery Trust Fund

Estimated Revenues

71-310900-30309-9399 Cemetery-Reserve for Permanent Account \$310,000

Appropriations

71-301900-30309-4058 Transfer to Capital Projects Fund \$310,000

Capital Projects Fund

Estimated Revenues

41-811530-80001-9386 Transfer from Cemetery Fund \$310,000

Appropriations

41-811530-80001-3073 Building Improvements \$310,000

Councilor Cantor: Resolution to Appropriate \$310,000 in the Fiscal Year 2014-15 Cemetery Trust Fund Budget and Establish a Project in the Fiscal Year 2014-15 Capital Projects Fund Budget for Improvements to Fairview Cemetery. I move that we adopt.

Councilor Kindall: Second.

President Slifka: Motion's made and seconded. Back to you, Mr. Van Winkle.

Mr. Van Winkle: Yes. Our Cemetery Trust Fund has a balance of about 2 million dollars in it, which is a fund balance. Annually we sell graves and inter people and, and charge for that. We are requesting \$310,000 to make significant repairs to the chapel that is on the site of Fairview. The chapel is non-accessible for people that want to come there. Our office for the cemetery is there. It has asbestos still in it, the roof needs to be replaced, and so our construction department's estimate was that \$310,000 would be appropriate to renovate the chapel to put it into what really needs to be done, obviously accessible, accessible area for the public and also perhaps create some spaces in that small chapel. This is a small building but create some spaces for some individual time for reflection if someone needed it, so the money is to just rebuild or renovate the chapel building at Fairview.

President Slifka: Thank you, Mr. Van Winkle. Mrs. Hall?

Councilor Hall: Thank you. I guess, I just wanted to take this opportunity to say of all the years I've been going to Fairview with the flag decorating, this past weekend was the first time I'd ever been inside the chapel and I was just shocked that this was just such a beautiful space that has never really been accessible to our community and, and so I will wholeheartedly support this. It's, it's a shame that families haven't been able to take advantage of this space, especially when you have inclement weather or what-have-you, and I also just wanted to say that Freddy Ortiz, who takes care of Fairview, has just done a wonderful job for the last 23 years that he's been working there and I don't think there's any caretaker who puts their lifeblood into their job like Freddy does and it, it definitely shows so I know he will be very, very happy and proud to have this space to share.

Mr. Van Winkle: I just wanna echo that. You know, Fairview really has never looked better than it is today and so this opportunity to renovate this one piece of it is really a great opportunity for us and Freddy Ortiz is a wonderful caretaker. We have many, many good employees who really don't have a job. They have a, a vocation, a goal to just be the best they can and Freddy Ortiz at Fairview Cemetery makes that place just shine,, so we're really very proud of him. Thank you.

Councilor Hall: And I know, too, he, he doesn't just do the job. He went out, he spoke with all the different funeral homes, talking about the idea of a chapel and how it could be used in services and thinking about is there revenue that could be generated through this as well, so his going above and beyond in thinking of the whole organization that he's involved with so I just wanna say thank you.

President Slifka: Thank you, Mrs. Hall. Mr. Van Winkle, I just thought maybe 'cause we have so many students here today and many people may not, we don't deal with the Cemetery Trust Fund very often, maybe just for, for the record, we could, you could put in what the Trust Fund is and what it's restrictions are.

Mr. Van Winkle: We set the Trust Fund up to maintain Fairview Cemetery. This, today, for our regular maintenance for the caretaking of that cemetery, the revenues that we receive from interments and for other things that the cemetery pay for those, that work. We are looking at needing to increase some of those costs over the coming years so we can stay current on those costs. The Fund is set aside to do major renovation like we're planning here for the chapel but also to maintain the cemetery for a very long period of time. Our residents in the cemetery are gonna be there for a very long period of time. We have about 850 graves left that are laid out in the cemetery that are unsold and we do about 60 graves a year, so we have a few years before we're going to run out of that and we have some plans which we'll be talking to perhaps future Council about some additional expansion of the cemetery in, in other areas around there, where we might have some opportunity in the future, but the intent is to create that Fund so that we can maintain that cemetery in perpetuity.

President Slifka: Thank you for the explanation. Anybody else? Okay, with that, all those in favor of the Resolution?

All: Aye.

President Slifka: Those opposed? Motion carries. We're up to Announcements.

ITEM #15: ANNOUNCEMENTS

President Slifka: And we repeat one from the public hearing, that we wish Mr. Davidoff a Happy Birthday. He *loves* this kind of attention.

Councilor Cantor: At least we're not singing.

President Slifka: I told him we'd spare him that, that it's embarrassing enough that we even called it out but under the other announcements. Our food pantry has, has been, unfortunately, our recent practice, it's in urgent need of food items. In particular, it needs canned corn, pasta in boxes or bags, pasta sauce, rice and rice mixes, spaghetti-o's or ravioli, and canned fruit and you can help stock the pantry simply by bringing this food down to our office down the hall here on the 3rd floor and which number is that, Mr. Van Winkle, do you remember?

Mr. Van Winkle: Close to 311.

President Slifka: Close to 311. You can't miss it or you can make a financial contribution to the Town that Cares Fund. There are raffle tickets being sold by the West Hartford Art League now through May 30th in order to win, a chance at winning, sorry, to buy a chance at winning art work by Sally Given, Bill Simpson, or Paul Zimmerman. All three works of art are available for viewing in the lobby of Farmington Bank at 962 Farmington Avenue here in West Hartford Center. The West Hartford Senior Center will have a fundraiser on June 1st being hosted by Noodles and Company. Twenty percent of your purchase will be donated back to the West Hartford Senior Center. Please come out, eat up, and give back but you must present the flyer at the time of purchase. This, Celebrate West Hartford, we have lots of material available now. You can come down to Town Hall and you can get this, the, the map and all of the information inside where all the booths are, etc., the list of activities. It's here in Town Hall. It's also available online and I, why are we talkin' about it? 'Cause it's coming right up on us. It's gonna be June 6th and 7th. It's our 29th annual. Of course, it will take place right here on the grounds of Town Hall. On Saturday, it runs from 10:00 a.m. – 6:00 and Sunday it runs from noon – 6:00. We've attracted roughly 35,000 people each year from the, from the region and it will have the usual wealth of activities, highly rated juried arts and crafts show, which runs concurrent with the, the time of the program itself so the, the arts and crafts show is going on, apparently, the entire time that the Celebrate is open. There's also great food, entertainment, games, carnival rides, and the certified 5K road race and, of course, no admission charge for the event and many of the other activities are free. Entertainment on Saturday includes performances by numerous local school jazz ensembles and then the professional bands will be performing on Sunday afternoon. Related to that, there, you can join Bike Walk Connecticut for its first ride in the new Discover Connecticut Bike Tour Series. It's in partnership with Bike West Hartford. It will be held on Saturday, June 6th. Riders can select distances; 11, 25, and 50 mile routes. The ride can be enjoyed by both new and experienced riders and if you have questions you can either email discoverct@bikewalkct.org or call (860) 977-1404. The 15th Annual Circle of Mercy Golf Outing will take place on Monday, June 8th, at the Hartford Golf Club. This benefits the Mercy Community, the people it serves, and the programs it delivers through St. Mary Home and The McAuley. If you want to get more information on how to or register, please call Christine Looby (860) 570-8305 or visit themercycommunity.org, that's all one word, themercycommunity.org. The MDC will hold a Hazardous Waste Household, sorry lots of H's in this, Household Hazardous Waste Collection, say that ten times fast, at Emanuel Synagogue, 160 Mohegan Drive, on Sunday, June 14th from 8:00 a.m. – 1:00 p.m. The event is free. And, last on my list, the West Hartford Chamber of Commerce will hold its 28th Annual Meeting and Awards Dinner on Monday, June 15th. It runs from 5:30 – 7:30. The event features dinner and awards ceremony honoring a Noah Webster Award Winner for extraordinary service to the West Hartford community, as well as a volunteer of the year. In addition, businesses that have been Chamber

members for more than 25, 35, and even 50 years will be recognized. And that concludes my list. Does anybody else have anything to add? That will be a first if there isn't somebody else. Oh.

Councilor Cantor: Yes. Lobsterfest, June 20th, 5:00 – 8:30 and it is for Rotary. This is a great, big, their largest fundraiser actually to fund some programs that they, do all year long in the Town so hope you can join us. You'll, you'll see banners and signs and all that. On June 1st, there's also a concert at the Universalist Church on Fern Street. It is a, it's the Hall High Choraliers and they do a beautiful job and it's, it's really a, I think it's a suggested donation or free if, if you'd like and it's a terrific thing. And also the Celebrity Breakfast, I think, is coming up on June 9th, right...at Effie's Places so stop in and see us and get some coffee and eggs, whatever.

President Slifka: Benefiting Park Road.

Councilor Cantor: Benefiting...all, Park Road Association.

President Slifka: Park Road, yeah. Thank you. Mr. Barnes?

Councilor Barnes: Yup, I was just gonna add that it was, I was just gonna add that it was to raise money for the Park Road Parade, I believe, so yes, Tuesday the 9th.

President Slifka: Okay. Anyone else? Mr. Doar, you're leaning in. Something important to say? No. Okay. Okay, moving on then. We go to Reports from Corporation Counsel. Mr. O'Brien?

ITEM #16: REPORT OF CORPORATION COUNSEL:

Mr. O'Brien: We have no need for Executive Session tonight and I would be happy to answer any questions you might have.

President Slifka: Thank you. Are there questions for Mr. O'Brien at this time? Okay. Thank you. We go to Appointments.

ITEM #17: APPOINTMENTS:

President Slifka: And I believe the only ones are with Mrs. Hall this evening.

Councilor Hall: Thank you. And I just, with your indulgence, would like to start off thanking Mike Sorensen, Mary Ann Langton, and Kevin Cuddeback for their service on the Conservation and Environment Commission, the Human Rights Commission, and the Risk Management Advisory Committee respectively. They've completed their terms and just wanna formally thank them for their service. And with that, I would like to move that we appoint Noreen Bachteler to the Senior Citizens Advisory Commission for a term ending 12/31/20 and Michael Wieczorek to the Commission on Veterans' Affairs for a term ending December 31, 2017.

President Slifka: Do we have a second?

Councilor Doar: Second.

President Slifka: Okay. Anything further? Okay. All those in favor of the Appointments?
All: Aye.

President Slifka: Those opposed? Motion carries. Mr. O'Brien said no need for Executive Session, so we go to the Consent Calendar, Mr., Mrs. Cantor, number 23.

ITEM #23: CONSENT CALENDAR:

ADOPTED

ITEM #13: RESOLUTION TO ACCEPT A JUSTICE ASSISTANCE GRANT UNDER THE VIOLENT CRIME PREVENTION PROGRAM IN THE AMOUNT OF \$22,000 AND APPROPRIATE SAID FUNDS FOR THE PURCHASE OF EQUIPMENT

WHEREAS, the West Hartford Police Department applied for and was awarded a Justice Assistance Grant (JAG) under the Violent Crime Prevention Grant program (VCP) in the amount of \$22,000, and

WHEREAS, the primary purpose of the VCP grant is to assist local governments with improving public safety, and

WHEREAS, Towns may use the funds to purchase eligible law enforcement equipment, and

WHEREAS, the Town intends to use these grant funds to purchase in-car video camera systems to document law enforcement activities,

NOW, THEREFORE, BE IT RESOLVED that the Town Council of the Town of West Hartford does hereby accept the grant awarded by the Justice Assistance Grant – Violent Crime Protection program, authorizes the purchase of equipment eligible under the terms of the grant, and amends the fiscal year 2014-2015 General Fund budget as follows:

<u>Estimated Revenue</u>		
01-220220-20401-9070	Justice Assistance Grant	\$22,000
<u>Appropriations</u>		
01-220220-20401-2103	Equipment	\$22,000

ITEM #14: RESOLUTION CLOSING CAPITAL PROJECTS AND TRANSFERRING UNEXPENDED BALANCES TO THE CAPITAL RESERVE ACCOUNT OF THE CAPITAL AND NON-RECURRING EXPENDITURE FUND

WHEREAS, various capital projects in the Capital Projects Fund have been completed, and

WHEREAS, some of the Town-funded projects have remaining unexpended balances that must be transferred to the Capital Reserve Account of the Capital and Non-recurring Expenditure Fund, and

WHEREAS, some of the projects have no remaining balances but must be formally closed,

NOW, THEREFORE, BE IT RESOLVED that the Town Council of the Town of West Hartford does hereby close the following projects and transfer the total of \$17.16 to the Capital Reserve Account of the Capital and Non-Recurring Expenditure Fund:

<u>PROJECT</u>		<u>AMOUNT</u>
871248	Storm Water Management	\$ 0.01
891510	Communications Infrastructure	17.15
	TOTAL	\$ 17.16

AND, BE IT FURTHER RESOLVED that the Town Council of the Town of West Hartford does hereby close the following capital projects which are fully expended:

<u>PROJECT</u>	
831426	Rockledge Golf Course
831430	Cornerstone Pool
851557	Asbestos Removal
851573	Interior School Building Improvements

ITEM #19: FROM DESIGN REVIEW ADVISORY COMMITTEE – RE: 160 SIMSBURY ROAD – LETTER DATED 5/7/15 RECOMMENDING APPROVAL

ITEM #20: FROM TOWN PLAN AND ZONING RECENT PLANNING ACTIONS: RE: 1420 FARMINGTON AVE, 289 SOUTH MAIN STREET, 7 SOUTH MAIN STREET

ITEM #21: FROM INLAND WETLAND AND WATERCOURSES AGENCY RECENT PLANNING ACTIONS – RE: 67 ARLEN WAY, 1420 FARMINGTON AVENUE, 77 ORCHARD ROAD, 160 SIMSBURY ROAD

ITEM #22: MINUTES FROM PUBLIC SAFETY COMMITTEE

Councilor Cantor: I move that we adopt.

Councilor Kindall: Second.

President Slifka: Okay. Motion's made and seconded. All those in favor?

All: Aye.

President Slifka: Those opposed? Motion carries.

COMMUNICATIONS:

ITEM #24: NOTICE OF TOWN PLANNER'S INTENTION TO APPROVE PURSUANT TO SECTION 177-44C (9)(B) AND (C) A REQUEST ON BEHALF OF DOLORES K. CUSSON, SEEKING APPROVAL FOR A REVISION TO SPECIAL DEVELOPMENT DISTRICT PLAN #37 LOCATED AT 49-51 NORTH MAIN STREET. THE REQUEST IS FOR MINOR MODIFICATIONS TO THE APPROVED PARKING AND FOR MINOR MODIFICATIONS TO THE APPROVED LANDSCAPING

WITHDRAWN

President Slifka: And 24 was, I can take care of it, was withdrawn by the Town Planner, so nothing to act on there. We have no Petitions, so I'd like to entertain a motion to Adjourn.

ITEM #26: ADJOURNMENT:

Councilor Cantor: So moved.

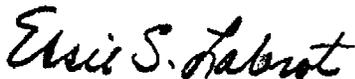
Councilor Kindall: Second.

President Slifka: All those in favor?

All: Aye.

President Slifka: Those opposed? Motion carries. We're adjourned and that's Mr. Davidoff's birthday gift.

Meeting Adjourned at 8:00 p.m.



Essie S. Labrot
Town Clerk/Council Clerk

ESL/dd

APPROVED AT JUNE 9, 2015, TOWN COUNCIL MEETING



May 15, 2015

Honorable Members of the West Hartford Town Council
Town of West Hartford
Town Hall
50 South Main Street
West Hartford, Connecticut 06107

Re: Change of Zone from RM-3 to IR and Special Development Designation for Property fronting on Talcott Road (1 Charter Oak Boulevard), West Hartford, Proposed to be used by the Metropolitan District Commission in conjunction with the South Hartford Conveyance and Storage Tunnel Project.

Dear Mayor Slifka and Honorable Members of the Town Council:

Application is hereby filed on behalf of the Metropolitan District Commission ("Applicant") the contract purchaser under agreement with Triumph Engine Control Systems, LLC of an approximately 67,977 square feet (SF) parcel fronting on Talcott Road (1 Charter Oak Boulevard), West Hartford, Connecticut ("Property"). With this application, the Applicant proposes to construct a Tunnel Access Shaft, and permanent Air Treatment Facility which are key components of the South Hartford Conveyance and Storage Tunnel Project (South Tunnel). To do so, the Applicant seeks to change the current zoning designation for the Property from Multifamily Residential District ("RM-3") to a Restricted Industrial District ("IR") underlying zoning district within a new special development district, pursuant to the provisions of §177-44 of the Code of West Hartford, Connecticut.

As shown on Figure 1 (Zoning Area for Tunnel Access Shaft), the parcel currently zoned as RM-3 is located immediately adjacent to a much larger property to the north and east, zoned as IR. The parcels to the west are zoned residential. In addition, the parcels located directly across Talcott Road are currently zoned as IG (General Industrial District). A legal description of the boundary of this Property for which the change of zone approval is sought, as well as a proposed ordinance, is attached as Enclosures (B) and (C), respectively. They are incorporated as part of this application, along with the information contained in Enclosures (A) through (F) noted below ("Application").

The Metropolitan District 

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An Affirmative Action and Equal Opportunity Employer



ZONING CODE - BG
GENERAL BUSINESS
DISTRICT

ZONING CODE - RM-3
RESIDENTIAL DISTRICT



PLAN

SCALE: 1"=20'



NOTES:

1. FOR LEGEND SEE SHEET 500 C-001.
2. FOR GENERAL NOTES AND ABBREVIATIONS SEE SHEET 500 C-002.

VERTICAL DATUM IS NAVD 29
HORIZONTAL DATUM IS NAD 83/82

MDC
The Metropolitan District
555 Main Street
Hartford, Connecticut

REV.	DATE	BY	CHKD	REMARKS

FILE NO. ...
DESIGNED BY ...
DRAWN BY ...
CHECKED BY ...
DATE: APRIL 2018

**90% SUBMITTAL
NOT FOR
CONSTRUCTION**

ABCOM 20 DORSET DRIVE, SUITE 114
5007 Rte. 2, NEW
HARTFORD, CT 06111

BLACK & VEATCH

CONTRACT NO. 20XX-XX
SOUTH HARTFORD CONVEYANCE AND
STORAGE TUNNEL

CONTRACT 5
**ZONING AREA FOR
DROP SHAFT DS-1**
CIVIL

PLAN NUMBER
SHEET NO.
FIGURE 1



OVERVIEW

The Property is integral to the Applicant's proposed plan to construct the proposed Talcott Road South Tunnel facilities. The project area for the Tunnel Access Shaft and associated facilities will encompass a total area of approximately 67,977 SF. The site will be extensively landscaped to provide screening for residences located to the west, and traffic on Talcott Road to the south.

TRAFFIC AND PARKING CONSIDERATIONS

The Access Shaft and Air Treatment Facility will be unmanned, with only periodic visits for routine maintenance and site checks. Therefore, there will be minimal parking needs and no net increase in traffic to and from the site.

NOISE CONSIDERATIONS

The proposed Tunnel Access Shaft site will be situated in an Industrial district. In accordance with the Town of West Hartford noise ordinance, any nighttime noise exceeding 51 dBA at the western residential receptor property line shall be considered excessive and unnecessary noise and is not allowed. Also per the ordinance, a nighttime noise of 70 dBA at the northern industrial receptor also cannot be exceeded. The following paragraphs document compliance with the Town of West Hartford noise ordinance.

Engine Generator. The stand-by natural gas generator for the facility will provide back-up power in case of a power outage. This will be located approximately 180 feet from the residential property line (in the east-west direction) and 80 feet the Industrial property line (in the north-south direction). An evaluation of the generator noise was performed with the 51 dBA and 70 dBA thresholds at each property line. The 51 dBA threshold governed. Sound attenuation enclosures for engine generators are specified based upon a noise level 23 feet from the unit. With a noise threshold of 51 dBA at 180 feet from the unit, a calculated value of 69 dBA would be allowed at a distance of 23 feet. To meet this threshold, the project has specified a sound attenuation enclosure for the generator with a rating of 65 dBA.

Air Treatment Facility. The Air Treatment Facility is made up of fans with electric motors, air ductwork, and carbon vessels; all equipment located behind masonry walls. Air is moved out of the tunnel by the fans and through the carbon vessel and exhausted into the atmosphere. Three fans will be installed initially and space will be provided for a future fan, if necessary. Only two of the three installed fans will be required to operate, and the third is a standby fan. The closest fan will be located approximately 80 feet from the residential property line (in the east-west direction) and 60 feet from the Industrial property line (in the north-south direction). The closest carbon vessel will be located approximately 90 feet and 85 feet from those same property lines. An evaluation of the noise from the air treatment facility was performed with the 51 dBA and 70 dBA thresholds at each property line. Based on this evaluation, each fan will be required to

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produce no more than 60 dBA sound pressure at a distance of 3 feet from the unit. Maintaining this sound level at each unit will result in noise levels of less than the threshold requirement at the property line with two fans running. In addition to the fan requirements, the air treatment facility will include insulated exposed ductwork and will include a silencer on the carbon vessel outlet.

DESIGN AND LANDSCAPING ELEMENTS

The proposed Air Treatment Facility will be contained in a roofless 95 ft by 75 ft brick structure, 20 ft in height. The paved site and entrance from Talcott Road will be surrounded by grass, with extensive shrubs and other plantings along the western and southern boundary.

OUTREACH EFFORTS

A neighborhood public meeting was held on Thursday, April 30, 2015, at 6:30 P.M., at the Elmwood Community Center, located at 1106 New Britain Avenue in West Hartford, CT. Approximately 180 residents and business owners adjacent to the Talcott Road site were mailed an invitation to attend this meeting. The invitations included a three page project information handout describing the South Tunnel project. At the meeting a technical presentation was given to explain the South Tunnel Project in more detail, describe in greater detail structures that are anticipated to be constructed in this area, describe the local regulatory process that the MDC will follow, and to obtain feedback from the public adjacent to aspects of the project. All attendees were given ample opportunity to speak. They asked questions looking for more technical explanation about the project. They did not indicate any objection to what was presented and proposed.

To-date, the Applicant has held two public meetings with the Design Review Advisory Committee, where details of the proposed project were presented and discussed. These meetings were open to the public. The first was held on 1/22/15 and the second was held on 4/2/15.

STORMWATER

Based on topography and existing contour data, the entire Tunnel Access Shaft site is a single watershed that slopes south towards Talcott Road, to a catch basin located just outside the southwest corner of the lot. The proposed site improvements will reduce the impervious area footprint by approximately 20,000 SF and also improve site drainage. This will be an improvement to the quality and quantity of stormwater runoff from the project as compared to existing conditions.

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FINDINGS

The proposed Application is worthy of approval for the following reasons:

1. The change of the underlying zone for the Property from Multifamily Residence District (RM-3) to Restricted Industrial District (IR) is appropriate as it will allow for the construction of an integral component of the South Tunnel project, which will greatly benefit the residents of West Hartford in the form of improved surface water quality.
2. The change of the underlying zone for the Property from Multifamily Residence District (RM-3) to Restricted Industrial District (IR) is appropriate as it will result in an overall improvement in the current site aesthetics, by way of extensive landscaping, elimination of approximately 20,000 SF of paved area, and reduction in stormwater related impacts to downstream receiving waters.

The Proposed Ordinance, application fee and information required pursuant to Section 177-44 of the Zoning Ordinance, are enclosed.

Respectfully submitted,

Andrew Perham
Project Manager
The Metropolitan District

List of Enclosures:

- A) Letter from Triumph Engine Control Systems, LLC giving Agent Authorization to the Applicant
- B) Description of Premises (Acquisition and Easement Plan)
- C) Proposed Ordinance
- D) Affidavit of Interest
- E) Description of Proposed Uses
- F) Design Drawings

The Metropolitan District

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Enclosure A

Letter from Triumph Engine Control Systems, LLC giving Agent Authorization to the Applicant



Triumph Engine Control Systems

A Triumph Group Company

April 15, 2015

Honorable Members of the West Hartford Town Council
Town of West Hartford
Town Hall
50 South Main Street
West Hartford, CT 06107

Re: Change of Zone from RM-3 to IR and Special Development District Designation for Property Proposed to be Used by The Metropolitan District in conjunction with the South Hartford Conveyance Tunnel

Dear Mayor Slifka and Honorable Members of the Town Council:

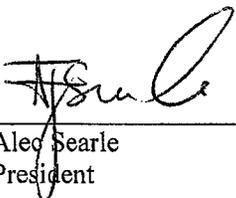
Please be advised that Triumph Engine Control Systems, LLC ("Triumph"), located at 1 Charter Oak Boulevard, West Hartford, Connecticut, has entered or intends to enter into a Purchase and Sale Agreement with The Metropolitan District (the "MDC") regarding the sale of a portion of property currently owned by Triumph located along Talcott Road in West Hartford. As the owner of the fee interest in the land located along Talcott Road, Triumph hereby authorizes the MDC to submit, on behalf of Triumph, any and all land use applications to the various agencies of the Town of West Hartford which may be necessary for the construction of the improvements contemplated including, but not limited to, applications for the creation, amendment and approval of a special development district, applications for zone changes, variances, special use permits, special exceptions, wetlands permits, subdivisions/resubdivision approvals and lot split approvals, if necessary, and Triumph hereby joins in all such applications.

By granting the above authorization and joining in the applications to be submitted by the MDC, the undersigned in no manner is committing itself to consummate the land transaction described above, which transaction will be governed by the terms of the referenced Purchase and Sale Agreement. The undersigned executes this consent and joinder for the sole purpose of facilitating the filing and pursuit of the required applications and complying with the requirements of the ordinances of the Town of West Hartford.

A photocopy or facsimile copy of this authorization shall be considered as effective and valid as the original, and this authorization shall remain in effect unless terminated, in writing, by Triumph.

Respectfully submitted,

TRIUMPH ENGINE CONTROL SYSTEMS, LLC

By:  4/15/15
Alec Searle
President

Enclosure B

Description of Premises (Acquisition and Easement Plan)

Description of Premises

A certain parcel of land on the property of now or formerly Triumph Engine Control Systems, LLC, containing 67,977 square feet, 1.56 acres, situated in the Town of West Hartford, State of Connecticut and being shown on a map entitled: "Acquisition and Easement Plan, 1 Charter Oak Boulevard, West Hartford, Connecticut" prepared for The Metropolitan District, Hartford, Connecticut, prepared by Zuvic, Carr and Associates, Inc. and dated December 4, 2014.

Said Parcel Acquisition Area is more particularly bounded and described as follows:

Commencing at an iron pin on the northerly right-of-way line of Talcott Road and the southwesterly corner of land now or formerly of Triumph Engine Control Systems, LLC;

Thence running North $1^{\circ}52'06''$ East along the easterly property line of land now or formerly of Fillion Berthier, 177.54 feet to a point;

Thence running North $1^{\circ}52'06''$ East through land now or formerly of Triumph Engine Control Systems, LLC, 52.88 feet to a point;

Thence running South $86^{\circ}24'21''$ East through land now or formerly of Triumph Engine Control Systems, LLC, 309.14 feet to a point;

Thence running South $3^{\circ}25'14''$ West through land now or formerly of Triumph Engine Control Systems, LLC, 213.78 feet to a point on the northerly right-of-way of Talcott Road;

Thence North $89^{\circ}31'53''$ West along the northerly right-of-way line of Talcott Road, 303.30 feet, to the southwesterly corner of the herein described Parcel Acquisition Area, and place of beginning.

Enclosure C
Proposed Ordinance

**An Ordinance Amending an Ordinance Establishing
Zoning Regulations of the Town of West Hartford**

BE IT ORDAINED BY THE TOWN COUNCIL OF WEST HARTFORD:

That the boundaries and districts shown on the Building Zone Map entitled "Revised Zoning Map, Town of West Hartford, Connecticut," which map is on file in the Town Clerk's Office of the Town of West Hartford, are hereby amended as follows:

The zoning district designation for a portion of Talcott Road (specific address to be determined), more particularly described below, is hereby changed from Multifamily Residential District ("RM-3") to a Restricted Industrial District ("IR") underlying zoning district within a new special development district, pursuant to the provisions of §177-44 of the Code of West Hartford, Connecticut, all in accordance with a set of plans entitled "Zone Change Request for South Tunnel Access Shaft in West Hartford" and consisting of 6 sheets including the cover sheet as they be amended and approved by the West Hartford Town Council and filed on the West Hartford Land Records, all as effect the land as described below:

Commencing at an iron pin on the northerly right-of-way line of Talcott Road and the southwesterly corner of land now or formerly of Triumph Engine Control Systems, LLC;

Thence running North 1°52'06" East along the easterly property line of land now or formerly of Fillion Berthier, 177.54 feet to a point;

Thence running North 1°52'06" East through land now or formerly of Triumph Engine Control Systems, LLC, 52.88 feet to a point;

Thence running South 86°24'21" East through land now or formerly of Triumph Engine Control Systems, LLC, 309.14 feet to a point;

Thence running South 3°25'14" West through land now or formerly of Triumph Engine Control Systems, LLC, 213.78 feet to a point on the northerly right-of-way of Talcott Road;

Thence North 89°31'53" West along the northerly right-of-way line of Talcott Road, 303.30 feet, to the southwesterly corner of the herein described Parcel Acquisition Area, and place of beginning.

Enclosure D
Affidavit of Interest

Affidavit of Interest

The undersigned, being duly sworn, hereby deposes and says:

The names and addresses of any person, firm or corporation having a direct or indirect interest in a personal or financial sense in the application of The Metropolitan District Commission (MDC) to purchase an area of approximately 67,977 square feet on property located on Talcott Road (the "Premises") in order to construct public improvements associated with the South Hartford Conveyance and Storage Tunnel (South Tunnel) project, which application will require a change in the current zoning designation for the Premises from a RM-3 to an IR underlying zoning district within a new special development district to be known as (specific address to be determined), are as follows:

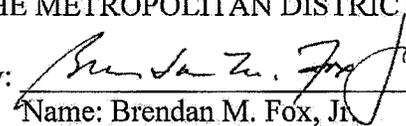
1. Triumph Engine Control Systems, LLC, as owner of property located on Talcott Road and the intended seller of the Premises should the requisite land use approvals in connection with the MDC's proposal to develop the proposed improvements be approved. The address for Triumph Engine Control Systems, LLC is 1 Charter Oak Boulevard, West Hartford, Connecticut.

2. The Metropolitan District as intended buyer of the Premises and as the entity responsible for the improvements on the Premises. The MDC is a specially chartered municipality comprised of eight member towns, including the Town of West Hartford. The address for the MDC is 555 Main Street, Hartford, Connecticut.

Further your affiant sayeth not.

Executed this 15th day of May, 2015

THE METROPOLITAN DISTRICT

By: 

Name: Brendan M. Fox, Jr.

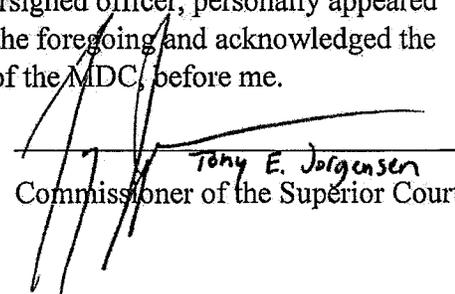
Title: Assistant District Counsel

STATE OF CONNECTICUT)

SS: Hartford

COUNTY OF HARTFORD)

On this 15th day of May, 2015 before me, the undersigned officer, personally appeared Brendan M. Fox, Jr., Assistant District Counsel, signer of the foregoing and acknowledged the same to be his free act and deed and the free act and deed of the MDC, before me.



Tony E. Jorgensen
Commissioner of the Superior Court

Enclosure E
Description of Proposed Uses

Description of Proposed Uses

This application seeks to amend the underlying zone for Property located on Talcott Road, West Hartford from Multifamily Residence District (RM-3) to Restricted Industrial District (IR) for the purposes of construct a Tunnel Access Shaft and an Air Treatment Facility associated with the Metropolitan District Commission South Hartford Conveyance and Storage Tunnel.

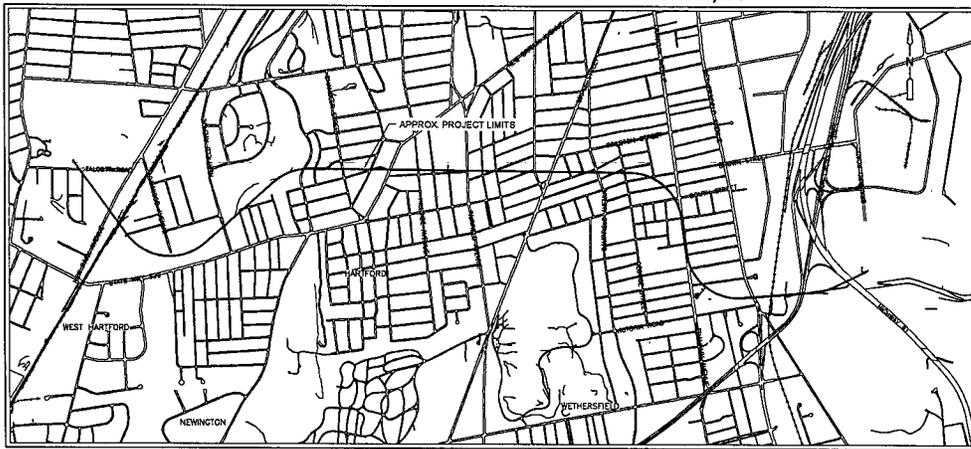
No unusual noise, vibration radiation, odor or dust, smoke, gas fumes, or other atmospheric pollution is expected to be produced from the operation and maintenance of the Air Treatment Facility. The Facility will be compatible with the amended zoning use, and well buffered from the residences located to the west and Talcott to the south.

Enclosure F
Design Drawings
(See attached)



THE METROPOLITAN DISTRICT
 HARTFORD, CONNECTICUT
**ZONE CHANGE REQUEST FOR SOUTH
 TUNNEL ACCESS SHAFT IN
 TOWN OF WEST HARTFORD**
MAY 2015

CITY OF HARTFORD AND TOWN OF WEST HARTFORD, CT



LOCUS MAP
 1" = 1000'
 0 500 1000

SHEET NO. TITLE

- 210 C-101 RETRIEVAL SHAFT SITE 2D LANDSCAPING
- 220 C-101 RETRIEVAL SHAFT SITE RENDERING

CIVIL

- 230 C-101 RETRIEVAL SHAFT SITE AND INTEGRAL DROP SHAFT PLAN AND PROFILE
- 230 C-102 RETRIEVAL SHAFT SITE AND UTILITY LAYOUT PLAN
- 230 C-103 RETRIEVAL SHAFT GRADING AND DRAINAGE PLAN
- 230 C-104 RETRIEVAL SHAFT ENTRANCE ROAD PLAN & PROFILE
- 230 C-105 RETRIEVAL SHAFT & TULLOCH ROAD RESTORATION PLAN
- 230 C-106 RETRIEVAL SHAFT FINAL SITE - PLANTING PLAN
- 299 C-101 CIVIL DETAIL SHEET I
- 299 C-102 CIVIL DETAIL SHEET II
- 299 C-104 CIVIL DETAIL SHEET IV
- 299 C-111 PLANTING DETAILS I
- 299 C-112 PLANTING LIST AND PLANTING NOTES

ARCHITECTURAL

- 219 A-101 RETRIEVAL SHAFT ODOOR CONTROL ENCLOSURE - PLAN
- 219 A-201 RETRIEVAL SHAFT ODOOR CONTROL ENCLOSURE - ELEVATIONS
- 219 A-301 RETRIEVAL SHAFT ODOOR CONTROL ENCLOSURE - WALL SECTIONS
- 299 A-501 GENERAL SCHEDULES AND DETAILS

MECHANICAL PROCESS

- 231 D-101 RETRIEVAL SHAFT ODOOR CONTROL PLAN
- 231 D-102 RETRIEVAL SHAFT PLUMBING PLAN, DETAILS AND SCHEDULES
- 231 D-201 RETRIEVAL SHAFT SECTION AND DETAILS
- 240 D-101 WEST HARTFORD INLET CONTROL CASE CHAMBER
- 289 D-101 TRASH RACK DETAIL

STRUCTURAL

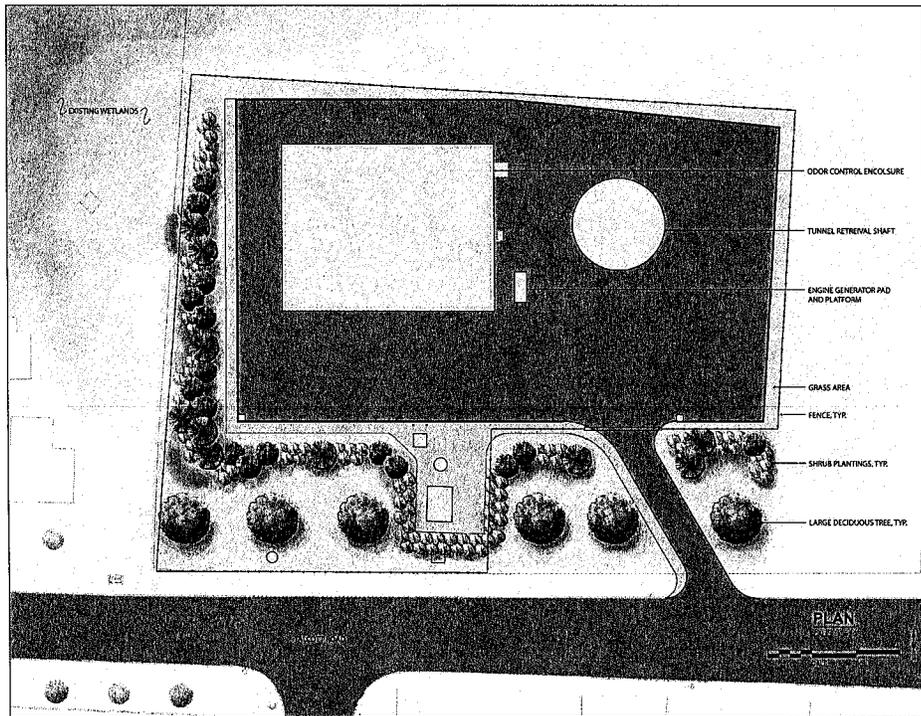
- 203 S-101 RETRIEVAL SHAFT PLANS
- 203 S-201 RETRIEVAL SHAFT SECTION

ELECTRICAL

- 230 E-104 RETRIEVAL SHAFT AND WEST HARTFORD CONDUIT - SYSTEMS PLAN
- 230 E-401 MISCELLANEOUS SCHEDULES



90% SUBMITTAL - NOT FOR CONSTRUCTION
 CONTRACT NO. 20



VERTICAL DATUM IS NGVD 29
HORIZONTAL DATUM IS NAD 83/92

MDC
The Metropolitan District
555 Main Street
Hartford, Connecticut

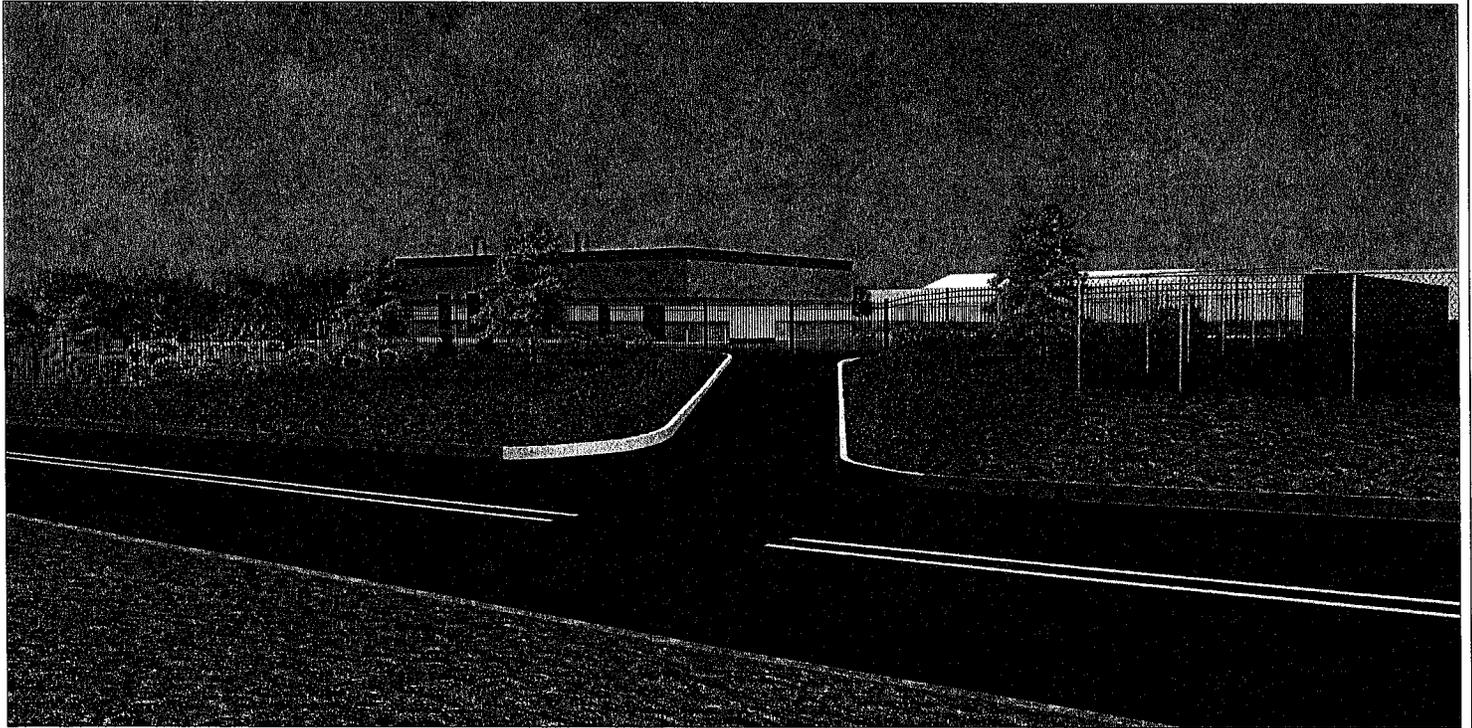
FILE NO.	DATE	BY	CHKD	REMARKS

90% SUBMITTAL
NOT FOR
CONSTRUCTION

ASCOM
200 ENTERPRISE DRIVE, SUITE 110
HARTFORD, CT 06111
PHONE (860) 231-0800
PROJECT NO. 20XX-XX
BLACKVEATCH

**RETRIEVAL SHAFT SITE
2D LANDSCAPING**
CIVIL

PLAN NUMBER
SHEET NO.



VERTICAL DATUM IS NAVD 29
 HORIZONTAL DATUM IS NAD 83/92

MDC
 The Metropolitan District
 555 Main Street
 Hartford, Connecticut

REV. NO.	DATE	BY	CHKD	REVISION

FILE NO. _____
 DRAWN BY _____
 DATE _____
 CHECKED BY _____
 APPROVED BY _____
 DATE _____

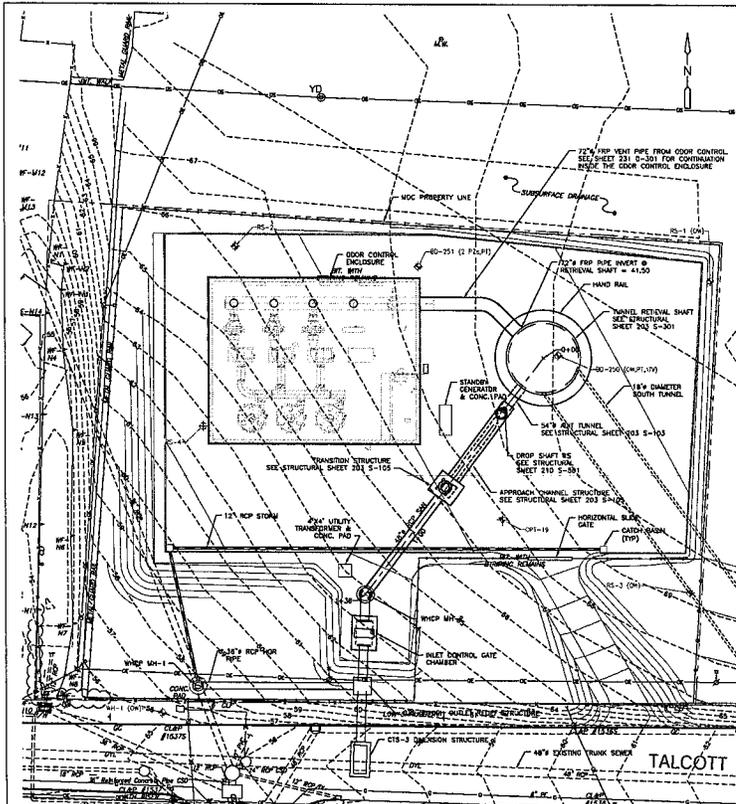
AECOM 500 FIVESTAR DRIVE, SUITE 100
 SCOTTSDALE, AZ 85251
 PHONE: 480.340.5000
 FAX: 480.340.5001
BLACK & VEATCH

CONTRACT NO. 2015B-27
 SOUTH HARTFORD CONVEYANCE AND
 STORAGE TUNNEL

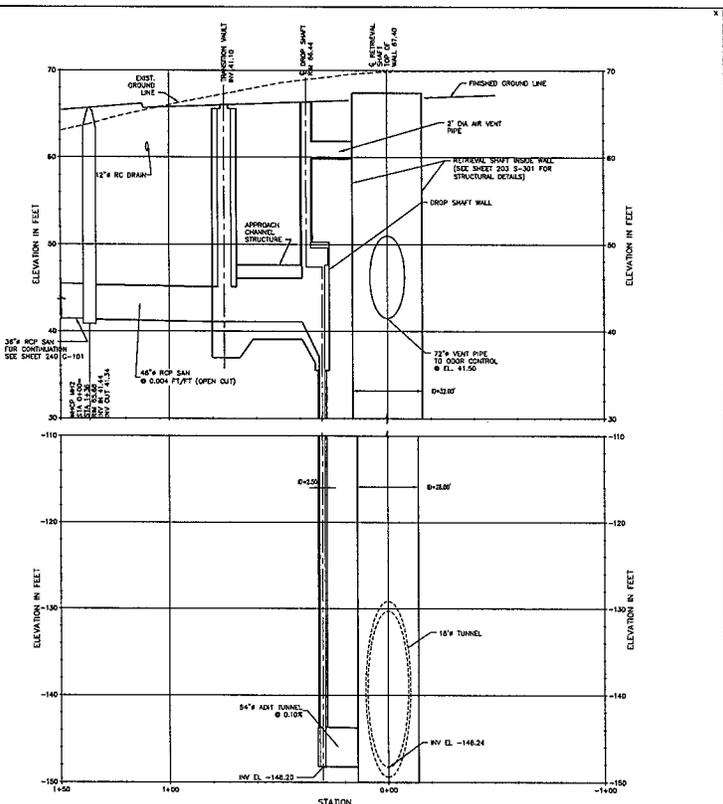
RETRIEVAL SHAFT SITE RENDERING

CIVIL

PLAN NUMBER _____
 SHEET NO. _____



PLAN
SCALE: 1" = 20'



PROFILE
SCALE: 1" = 20' HORIZ.
1" = 5' VERT.

- NOTES:
1. FOR LEGEND SEE SHEET 200 C-001.
 2. FOR GENERAL NOTES AND ABBREVIATIONS SEE SHEET 200 C-002.

VERTICAL DATUM IS NAVD 83
HORIZONTAL DATUM IS NAD 83/92

MDC The Metropolitan District
555 Main Street
Hartford, Connecticut

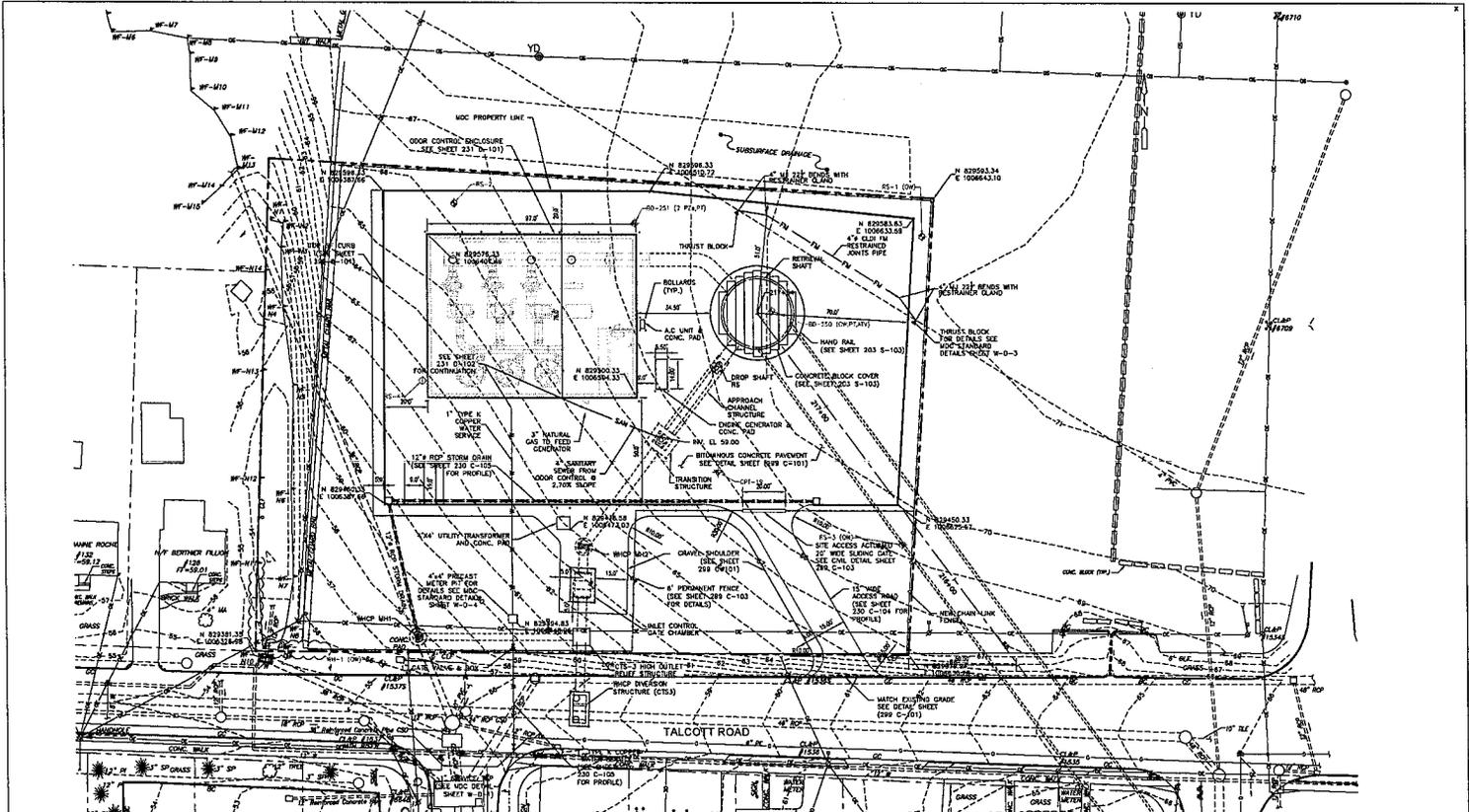
REV.	DATE	BY	CHKD	REMARKS

ASCUM 200 FIVEWAY DR., SUITE 104
ROCKY HILL, CT 06106
PHONE: 860-261-1600
FAX: 860-261-1601
BLACK & VEATCH

CONTRACT NO. 2015B-27
SOUTH HARTFORD CONVEYANCE AND STORAGE TUNNEL

CONTRACT 2
RETRIEVAL SHAFT AND INTEGRAL DROP SHAFT
PLAN AND PROFILE
CIVIL

SHEET NO.
230 C-101



PLAN
SCALE: 1" = 20'

- NOTES:**
1. FOR LEGEND SEE SHEET 200 C-01.
 2. FOR EXISTING NOTES AND ABBREVIATIONS SEE SHEET 200 C-000.
 3. FOR LANDSCAPING DETAILS SEE SHEET 230 C-141.
 4. FOR ELECTRICAL SITE PLAN SEE SHEET 230 C-161.

VERTICAL DATUM IS NOVO 29
HORIZONTAL DATUM IS NAD 83/92

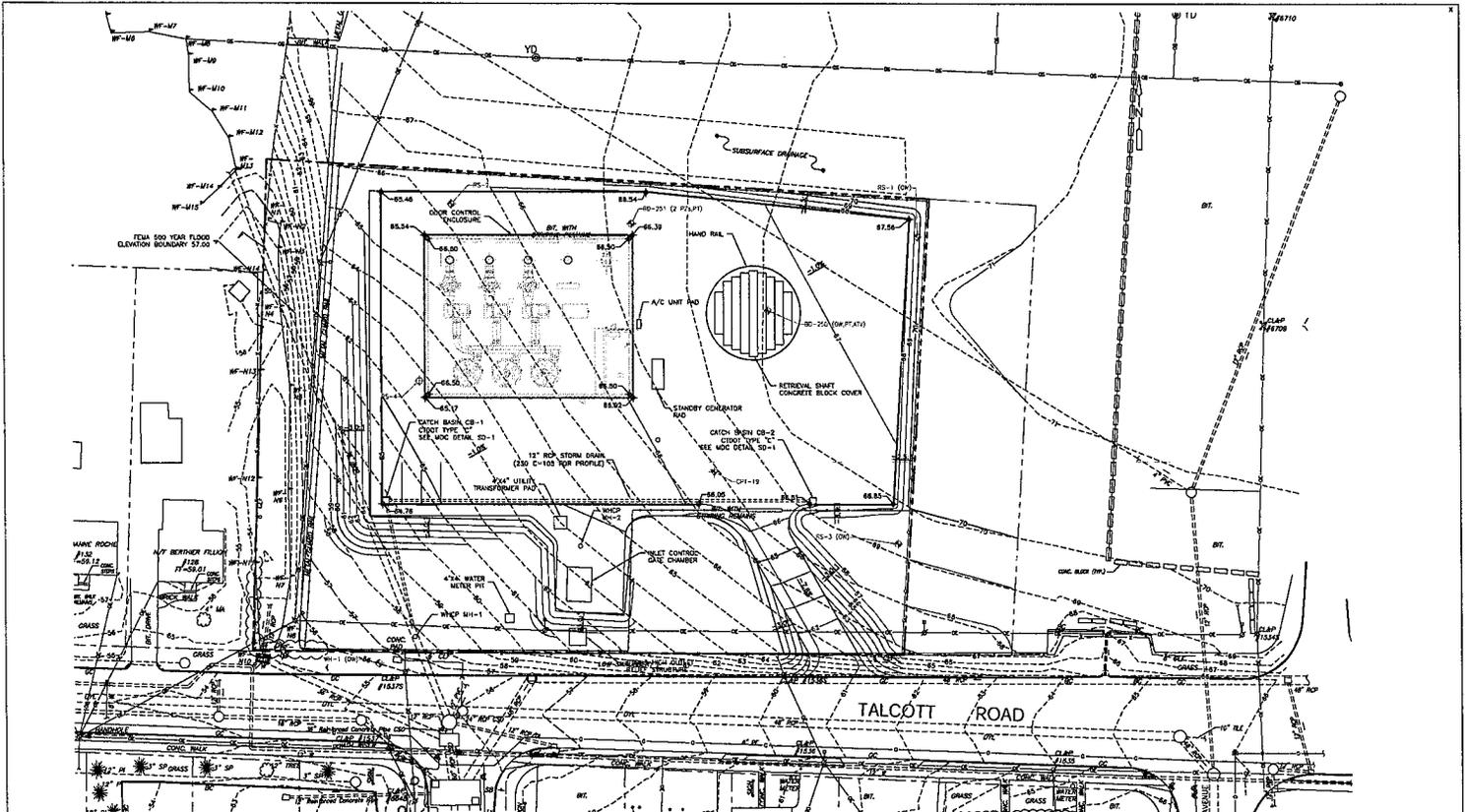
MDC The Metropolitan District
555 Main Street
Hartford, Connecticut

FILE NO. ... 230 C-161	DESIGNED BY ... J. S. ...		
DRAWN BY ... J. S. ...	CHECKED BY ... J. S. ...		
IN CHARGE BY ... J. S. ...	APPROVED BY ... J. S. ...		
DATE ...	DATE ...		
NO.	DATE	BY	REMARKS

AECOM 100 FRONT STREET, SUITE 14
HARTFORD, CT 06103
BLACK & VEATCH
CONTRACT NO. 2015B-27
SOUTH HARTFORD CONVEYANCE AND
STORAGE TUNNEL

CONTRACT 2
**RETRIEVAL SHAFT SITE & UTILITY
LAYOUT PLAN**
CIVIL

PLAN NUMBER
SHEET NO.
230 C-102



PLAN
SCALE: 1"=20'
SCALE: 1" = 20'

NOTES:
1. FOR LEGEND SEE SHEET 200 C-001.
2. FOR GENERAL NOTES AND ABBREVIATIONS SEE SHEET 200 C-002.

VERTICAL DATUM IS NAVD 29
HORIZONTAL DATUM IS NAD 83/92

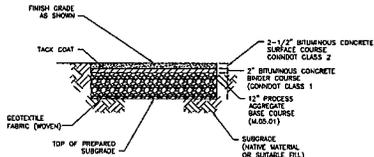
MDC The Metropolitan District
555 Main Street
Hartford, Connecticut

NO.	DATE	BY	CHKD	REMARKS

AECOM
CONTRACT NO. 2015B-27
SOUTH HARTFORD CONVEYANCE AND STORAGE TUNNEL

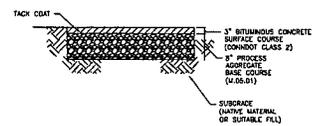
CONTRACT 2
RETRIVAL SHAFT GRADING & DRAINAGE PLAN
CIVIL

PURE NUMBER
SHEET NO.
230 C-103

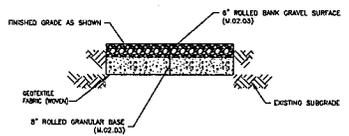


NOTES:
1. PROVIDE BITUMINOUS CONCRETE PAVEMENT TYPES PER CONDOT STANDARD SPECIFICATIONS.

BITUMINOUS CONCRETE PAVEMENT SECTION DETAIL
SCALE: NOT TO SCALE

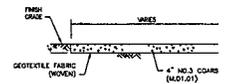


TEMPORARY BITUMINOUS CONCRETE PAVEMENT SECTION DETAIL
SCALE: NOT TO SCALE

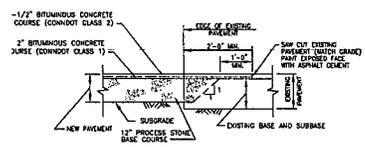


NOTES:
1. PROVIDE GRAVEL SHOULDER PER CONDOT STANDARD SPECIFICATIONS.

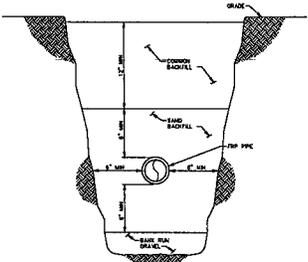
GRAVEL SHOULDER DETAIL
NOT TO SCALE



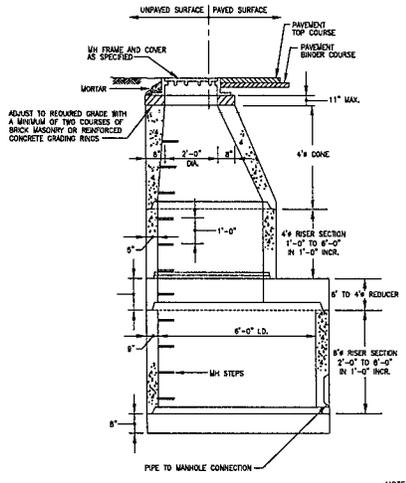
4" AGGREGATE (C) DISTURBED AREA
NOT TO SCALE



TYPICAL FORMAT OF PAVEMENT MATCHING DETAIL
NOT TO SCALE



TRENCH DETAIL FOR FRP PIPE INSTALLATION
NO SCALE



6" DIAMETER PRECAST MANHOLE
NO SCALE

NOTES:
1. FOR LEGEND SEE SHEET 200 C-001.
2. FOR GENERAL NOTES AND ABBREVIATIONS SEE SHEET 200 C-000.

VERTICAL DATUM IS NGVD 29
HORIZONTAL DATUM IS MAD 85/92

MDC The Metropolitan District
555 Main Street
Hartford, Connecticut

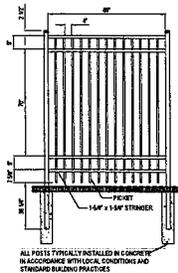
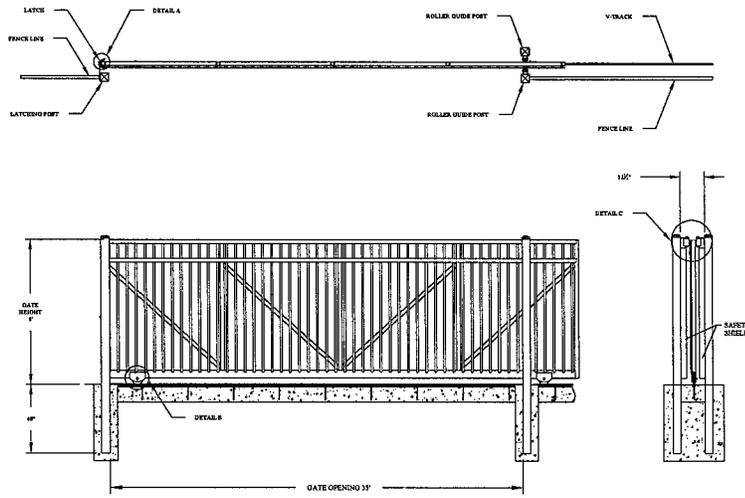
NO.	DATE	BY	CHKD	REMARKS

FILE NO. 200 C-100
REVISIONS
DRAWN BY
CHECKED BY
APPROVED BY
DATE: MAY 2015

AECOM 100 BRIDGE STREET, SUITE 100
HARTFORD, CT 06103
CONTRACT NO. 20XX-XX
SOUTH HARTFORD CONVEYANCE AND STORAGE TUNNEL

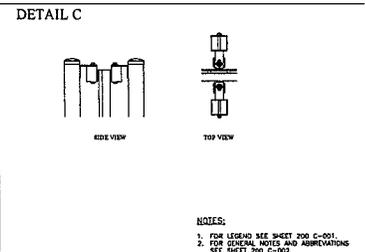
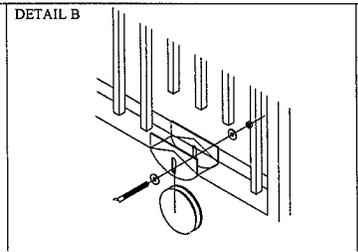
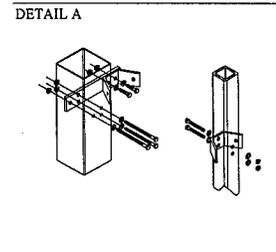
CONTRACT 2
CIVIL DETAIL SHEET 1
CIVIL

PLATE NUMBER
SHEET NO.
298 C-101



8' HIGH FENCE DETAIL
NOT TO SCALE

8' HORIZONTAL SLIDING GATE DETAIL
NOT TO SCALE



NOTES:
1. FOR LEGEND SEE SHEET 200 C-001.
2. FOR GENERAL NOTES AND ABBREVIATIONS SEE SHEET 200 C-002.

VERTICAL DATUM IS NOV 29
HORIZONTAL DATUM IS MAD 83/92

MDC The Metropolitan District
555 Main Street
Hartford, Connecticut

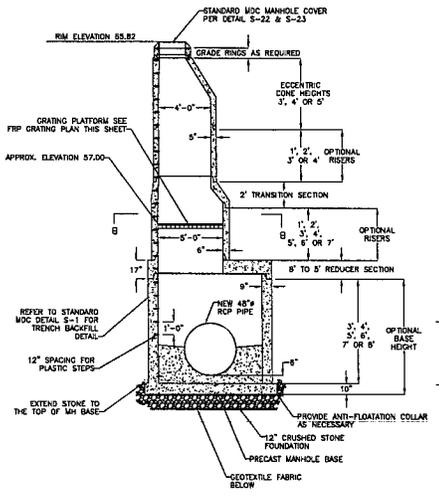
REV.	DATE	DRWN	CHKD	REMARKS

PLT. NO. ...
DESIGNED BY ...
DRAWN BY ...
CHECKED BY ...
APPROVED BY ...
DATE ...

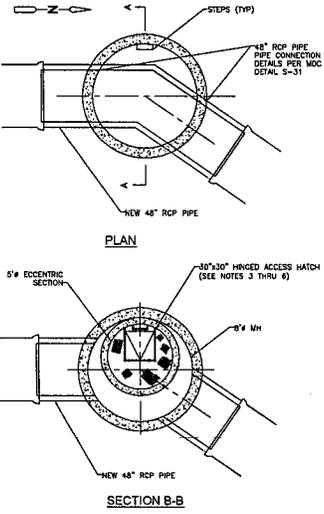
ARCUM CONSULTING ENGINEERS
CONTRACT NO. 20XX-XX
SOUTH HARTFORD CONVEYANCE AND STORAGE TUNNEL

CONTRACT 2
CIVIL DETAIL SHEET III
CIVIL

PLAT NUMBER
SHEET NO.
299 C-103

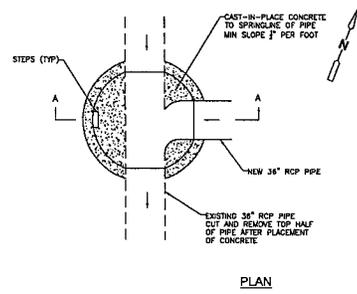


SECTION A-A
WHCP MH-2 8' DIAMETER PRECAST MANHOLE DETAIL
 S&A



SECTION B-B

- NOTES:**
1. INVERTS SHALL BE FIELD FORMED AND NOT FORMED IN SHOPPING.
 2. DISTANCE BETWEEN TOP OF MANHOLE COVER TO FIRST PLASTIC STOP SHALL BE BETWEEN 12" AND 14".
 3. GRATING ANGLES AND ALL APPURTENANCES ARE TO BE MANUFACTURED STANDARD DESIGN DETAILS.
 4. STRUCTURAL DESIGN TO BE PERFORMED BY FRP GRATING MANUFACTURER AND BE SIGNED AND STAMPED BY A CONNECTICUT PROFESSIONAL ENGINEER.
 5. DESIGN LOADS: 100 LB/SQ' WITH MAX. DEFLECTION LIMITED TO 0.125 INCH.



SECTION A-A
WHCP MH-1 8' DIAMETER DOGHOUSE MANHOLE DETAIL
 S&A

- NOTES:**
1. FILL ANNUAL SPACE AROUND PIPE WITH NON-SHRINK CONCRETE.
 2. DOGHOUSE MANHOLE SLOT SIZE BASED ON EXISTING PIPE SIZE. CONSTRUCTION SHALL COMPLY WITH SECTION ANGLES AND CONFIGURATION PRIOR TO CONSTRUCTION.
 3. NEW PIPE CONNECTION TO DOGHOUSE MANHOLE PER MDC STANDARD DETAIL S-4.
 4. EXISTING PIPE TO REMAIN IN SERVICE. CONSTRUCT NEW SWEET AND TRANSFER RINGS AS REQUIRED.
 5. CAST-IN PLACE DOGHOUSE MANHOLE SHALL BE INSTALLED ONLY WHEN AUTHORIZED BY ENGINEER.
 6. DISTANCE BETWEEN TOP OF MANHOLE COVER TO FIRST PLASTIC STOP SHALL BE BETWEEN 12" AND 14".

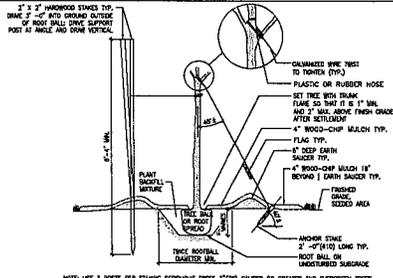
MDC
 The Metropolitan District
 555 Main Street
 Hartford, Connecticut

REV.	NO.	DATE	BY	CHKD.	REMARKS

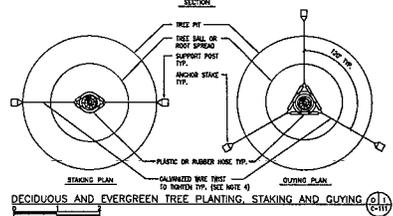
AECOM
 CONTRACT NO. 2015B-27
 SOUTH HARTFORD CONVEYANCE AND STORAGE TUNNEL

CONTRACT 2
CIVIL DETAIL SHEET IV
 CHL

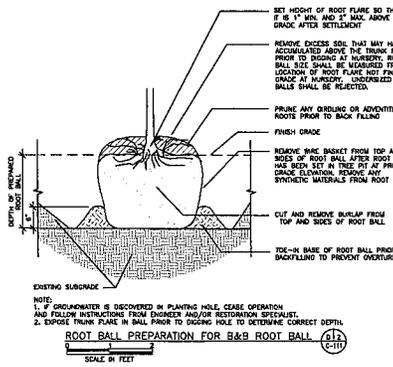
VERTICAL DATUM IS NAVD 29
 HORIZONTAL DATUM IS NAD 83/92
 PLAN NUMBER
 SHEET NO.
298 C-104



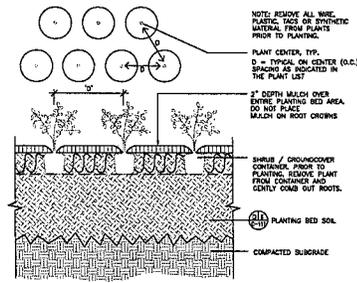
NOTE: USE 3 POSTS FOR SPACING DECIDUOUS TREES 2" (7/8" CALIBER OR GREATER) AND EVERGREEN TREES 4" (CALIBER) HIGH OR GREATER. USE 2 POSTS FOR SPACING DECIDUOUS TREES LESS THAN 2" (7/8" CALIBER) AND EVERGREEN TREES LESS THAN 4" (CALIBER) HIGH. TREES LESS THAN 2" (7/8" CALIBER) DO NOT REQUIRE STAKES.



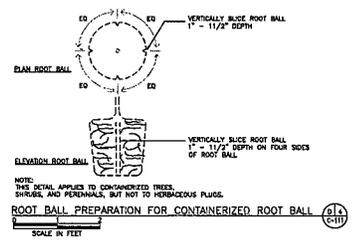
DECIDUOUS AND EVERGREEN TREE PLANTING, STAKING AND CULLING (C-111)



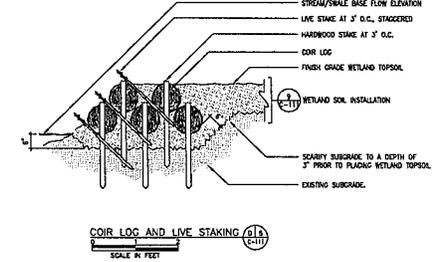
ROOT BALL PREPARATION FOR B&B ROOT BALL (C-111)



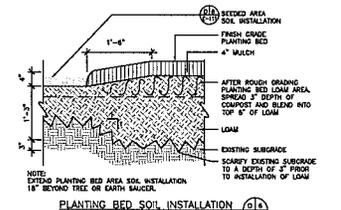
SHRUB PLANTING IN BEDS (C-111)



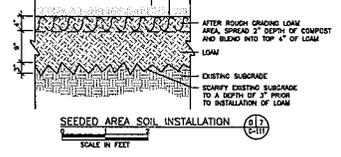
ROOT BALL PREPARATION FOR CONTAINERIZED ROOT BALL (C-111)



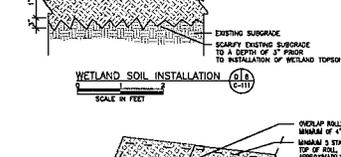
COIR LOG AND LIVE STAKING (C-111)



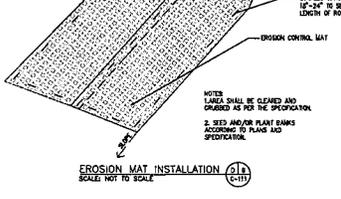
PLANTING BED SOIL INSTALLATION (C-111)



SEEDING AREA SOIL INSTALLATION (C-111)



WETLAND SOIL INSTALLATION (C-111)



EROSION MAT INSTALLATION (C-111)

The Metropolitan District 555 Main Street Hartford, Connecticut	<table border="1"> <tr> <th>REV. NO.</th> <th>DATE</th> <th>BY</th> <th>CHKD.</th> <th>REVISION</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	REV. NO.	DATE	BY	CHKD.	REVISION						P&I NO. 299-C-111 DESIGNED BY: ALLEN DRAWN BY: JAC CHECKED BY: JAC APPROVED BY: JAC DATE: 2014	AECOM 100 ENTERPRISE DRIVE, SUITE 14 BOSTON, MA 02118 TEL: 617-552-3600 FAX: 617-552-3601 WWW.AECOM.COM	30% SUBMITTAL NOT FOR CONSTRUCTION	CONTRACT NO. 20XX-XX SOUTH HARTFORD CONVEYANCE AND STORAGE TUNNEL	LANDSCAPING DETAILS 1	PLAN NUMBER SHEET NO. 299 C-111
		REV. NO.	DATE	BY	CHKD.	REVISION											
HORIZONTAL DATUM IS NAD 83/92																	

PEM-1

BOTANICAL NAME	COMMON NAME	INDICATOR	SIZE	SPACING	LOCATION
WETLAND Z					
AREA (S.F.)					
Quantity					
Sparganium angustifolium	Sea-reed	FAC	12" H Container	3' O.C.	718
Scirpus validus	Bulrush	FACW	12" H Container	3' O.C.	718
Carex stricta	Tussock Sedge	FACW	12" H Container	3' O.C.	718
Peltandra virginica	Arrow Arum	FACW	12" H Container	3' O.C.	718
Sagittaria arifolia	Pussy Willow	FACW	12" H Container	3' O.C.	718
TOTAL QTY:					3,892

PEM-2

BOTANICAL NAME	COMMON NAME	INDICATOR	SIZE	SPACING	LOCATION
North PFD & PES					
AREA (S.F.)					
Quantity					
Scirpus cyperinus	Wool grass	FACW	12" H Container	3' O.C.	322
Juncus effusus	Soft Rush	FACW	12" H Container	3' O.C.	322
Juncus canadensis	Canada Rush	FACW	12" H Container	3' O.C.	322
TOTAL QTY:					966

UPLAND BUFFER

BOTANICAL NAME	COMMON NAME	INDICATOR	SIZE	SPACING	LOCATION
Upland Buffer					
AREA (S.F.)					
Quantity					
TREES					
JUNIPERUS HORIZONTALIS	BARBETON RED CEDAR	FACW	2'-4" HT B.B.	10' O.C.	27
RETRIA POPULIFOLIA	GRAY BIRCH	FAC	12"-24" HT B.B.	10' O.C.	27
PRUNUS SEROTINA	BLACK CHERRY	FACW	24" HT B.B.	10' O.C.	27
TOTAL QUANTITY:					81
SHRUBS					
RHUS GLABRA	SMOOTH SUMAC	—	12"-24" HT B.B.	8' O.C.	96
VIBURNUM LANTAGIO	HAWNBERRY	—	12"-24" HT B.B.	8' O.C.	96
NYCTAGINIA	NORTHERN BURNING BUSH	FAC	12"-24" HT B.B.	8' O.C.	96
VIBURNUM DOUGLASSII	ARROWWOOD	FACW	2'-3" HT B.B.	8' O.C.	96
TOTAL QUANTITY:					384

PLANT LIST FOR WETLAND RESTORATION AREA (C-11)

SYMB	QTY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	COMMENTS
LT	8	LIRIODENDRON TULIPIFERA	TULIP TREE	BBB	2 1/2" - 3" CAL	
FSF	15	PINUS STROBUS MARIANNAE	FASTIGIATE WHITE PINE	BBB	5' - 6' HT.	PLANT TO GROUND
SHRUBS						
CSH	93	CORNUS SERICEA 'SANTINI'	SHAWNEE DOGWOOD	BS CONT.	24" - 30" HT.	SPACE AT 3' O.C.
HS	153	FOSTERIA X INTERMEDIA 'GOLD TIE'	GOLD TIE FOSTERIA	FS CONT.	35" - 18" HT.	SPACE AT 2'-6" O.C.
VTS	10	VIBURNUM RICCATUM 'SHASTA'	SHASTA VIBURNUM	BBB	3'-4" HT.	PLANT TO GROUND

PLANT LIST FOR RETRIEVAL SHAFT SITE (C-12)

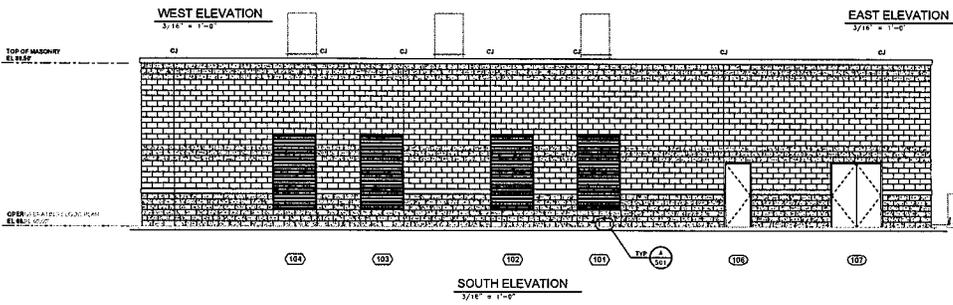
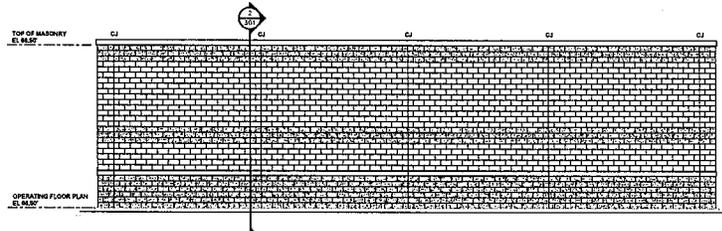
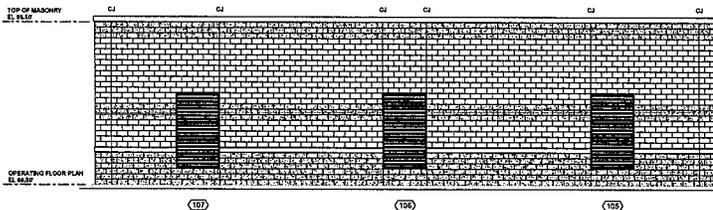
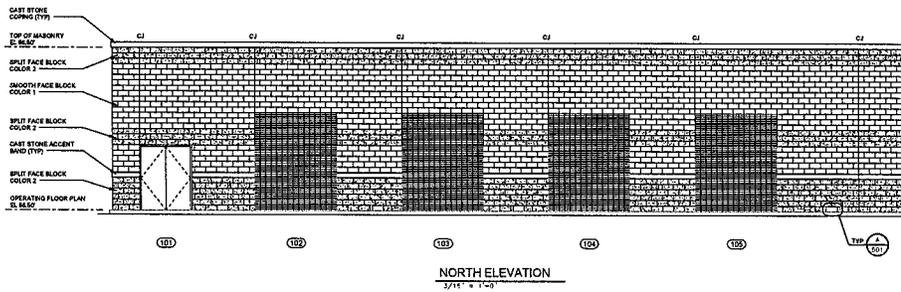
NOTES:

- SEE DRAWING 220 C-116 FOR WETLAND Z MITIGATION PLAN.
- SEE DRAWING 230 C-141 FOR RETRIEVAL SHAFT FINAL SITE LANDSCAPE PLAN.
- SEE DRAWING 299 C-111 FOR LANDSCAPING DETAILS 1.

DATE	BY	CHKD	REVISION

VERTICAL DATUM IS NGVD 29
HORIZONTAL DATUM IS NAD 83/92

 The Metropolitan District 555 Main Street Hartford, Connecticut	FILE NO. 299-C-112 DESIGNED BY: ALMULLEN DRAWN BY: JASAL CHECKED BY: JAY APPROVED BY: J. B. BROWN DATE: 2011	 90% SUBMITTAL NOT FOR CONSTRUCTION	CONTRACT NO. 20XX-XX SOUTH HARTFORD CONVEYANCE AND STORAGE TUNNEL	PLANT LIST AND PLANTING NOTES	PLAN NUMBER SHEET NO. 299 C-112
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- NOTES:
1. VENEER CONTROL JOINT (C)
 2. SEE STRUCTURAL DRAWINGS FOR CONCRETE BACKUP WALL DESIGN.

VERTICAL DATUM IS MOVD 29
 HORIZONTAL DATUM IS ROAD 83/92

MDC The Metropolitan District
 555 Main Street
 Hartford, Connecticut

REV.	DATE	BY	CHKD.	REMARKS

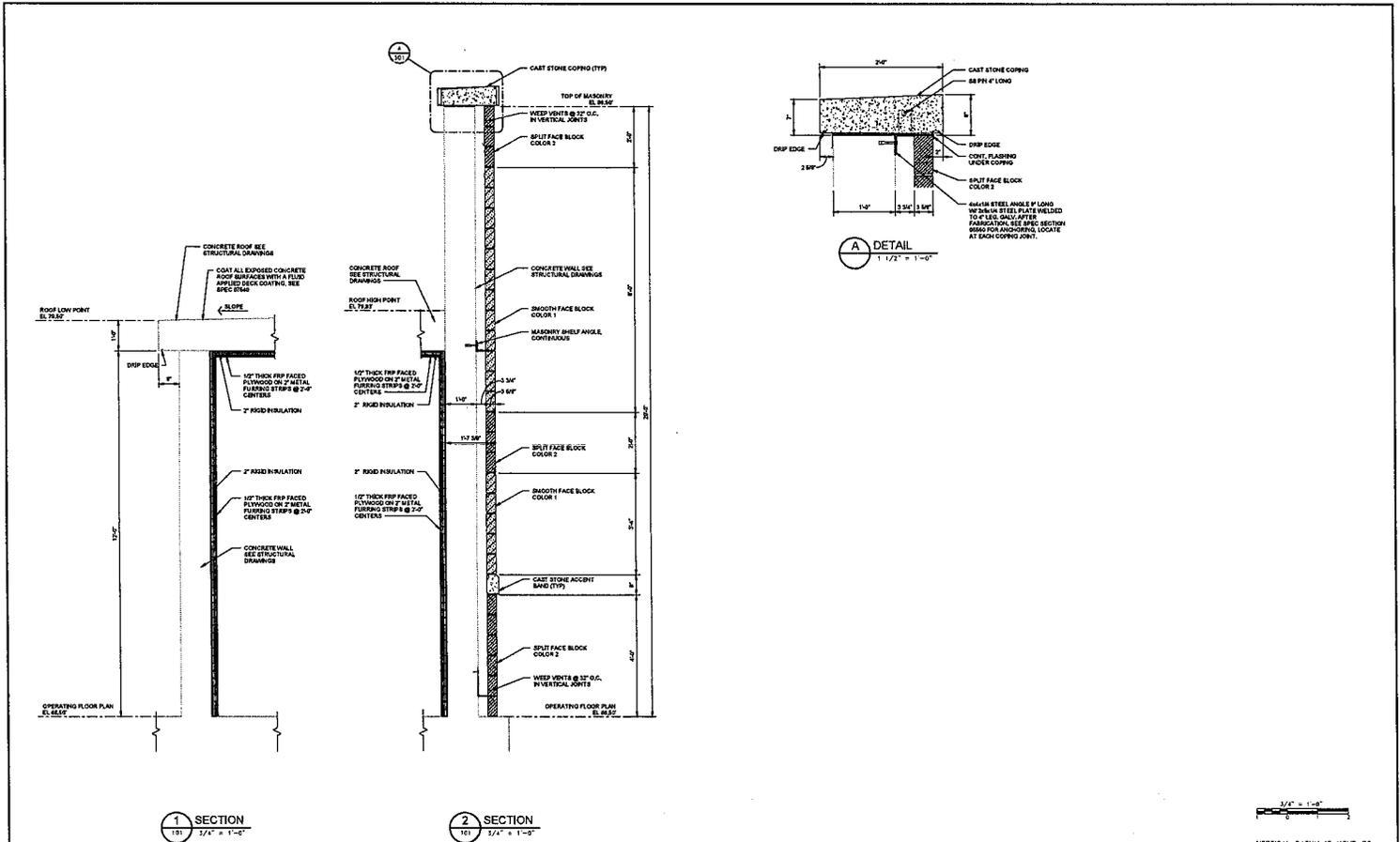
AECOM 100 DOWING ST., SUITE 110
 FORT MILL, SC 29504
 PHONE (803) 547-8000

BLACKVEATCH

CONTRACT NO. 2015B-27
 SOUTH HARTFORD CONVEYANCE
 AND STORAGE TUNNEL

CONTRACT 2
 RETRIEVAL SHAFT
 ODOR CONTROL ENCLOSURE -
 ELEVATIONS
 ARCHITECTURAL

PLAN NUMBER
 SHEET NO.
 216 A-201



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555 Main Street
Hartford, Connecticut

FILE NO.	2015B-27
DESIGNED BY	STC
DRAWN BY	STC
CHECKED BY	STC
DATE	11/25/15
APPROVED BY	STC
DATE	11/25/15

AECOM 100 CHIPPING WAYS, SUITE 110
PORT HARTFORD, CONNECTICUT 06183
BLACKVEATCH

CONTRACT NO. 2015B-27
SOUTH HARTFORD CONVEYANCE
AND STORAGE TUNNEL

CONTRACT 2
RETRIEVAL SHAFT
ODOR CONTROL ENCLOSURE -
WALL SECTIONS
ARCHITECTURAL

VERTICAL DATUM IS NAVD 83
HORIZONTAL DATUM IS NAD 83/92

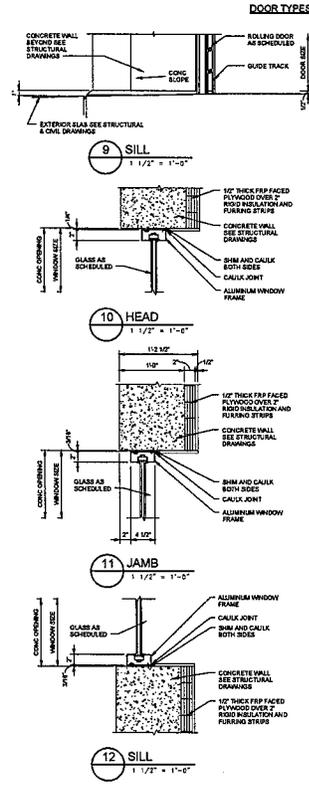
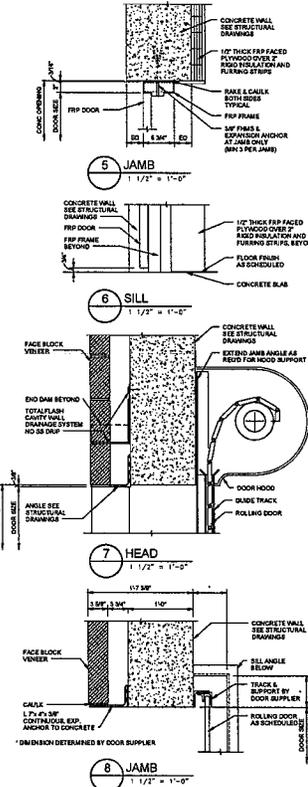
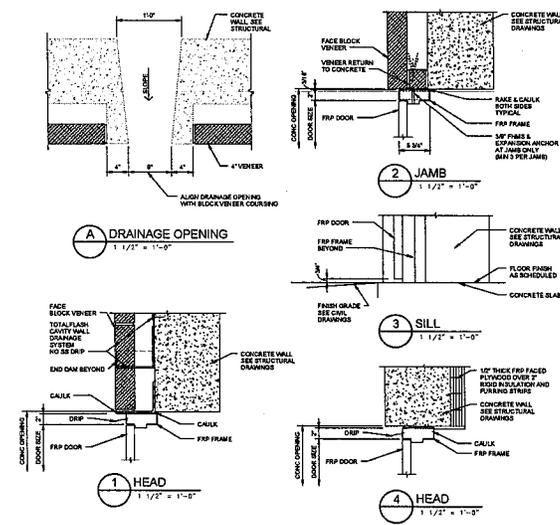
PLAN NUMBER
SHEET NO.
216 A-301

RETRIEVAL SHAFT ODOR CONTROL ENCLOSURE ROOM FINISH SCHEDULE														
ROOM NO.	ROOM NAME	FLOOR				WALLS				CEILING				REMARKS
		MATL	FINISH	BASE	HEIGHT	MATL	FINISH	BASE	HEIGHT	MATL	FINISH	BASE	HEIGHT	
101	ODOR CONTROL ROOM	CO	FF	CO	12'-0"	AL	FF	AL	8'-0"	AL	FF	AL	8'-0"	
102	ELECTRICAL ROOM	CO	FF	CO	12'-0"	AL	FF	AL	8'-0"	AL	FF	AL	8'-0"	

RETRIEVAL SHAFT ODOR CONTROL ENCLOSURE DOOR SCHEDULE													
No.	DOOR SIZE	MATERIAL	HEAD	JAMB	SILL	TYPE (D)	HWR	RATING	MATERIAL	DEPTH	REMARKS	FRAME	
												WIDTH	HEIGHT
101	8'-0" x 7'-0"	RA	7	8	8	C	-	-	RA	8"	MANUAL OPERATION	AL	8"
102	10'-0" x 12'-0"	RA	7	8	8	C	-	-	RA	8"		AL	8"
103	10'-0" x 12'-0"	RA	7	8	8	C	-	-	RA	8"		AL	8"
104	10'-0" x 12'-0"	RA	7	8	8	C	-	-	RA	8"		AL	8"
105	8'-0" x 7'-0"	FP	1	2	3	A	3	-	FP	3 1/2"		FP	3 1/2"
106	8'-0" x 7'-0"	FP	2	3	4	A	3	-	FP	3 1/2"		FP	3 1/2"

RETRIEVAL SHAFT ODOR CONTROL ENCLOSURE WINDOW SCHEDULE													
COUNT	TYPE	WIDTH	HEIGHT	MATERIAL	HEAD	JAMB	SILL	GLASS	TOP ELEV	COMMENTS	WINDOW		
											TYPE (D)	FINISH	HEIGHT
101	W	11'-0"	11'-0"	AL	11	11	11	11	11'-0"		AL	11	11

RETRIEVAL SHAFT ODOR CONTROL ENCLOSURE LOUVER SCHEDULE														
No.	OPENING	MATERIAL	HEAD	JAMB	SILL	TOP ELEV	REMARKS	LOUVER						
								WIDTH	HEIGHT	TYPE	FINISH	HEIGHT	HEIGHT	HEIGHT
101	8'-0" x 7'-0"	AL	11	11	11	11		AL	11	11	11	11	11	11



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Hartford, Connecticut

REV.	DATE	BY	CHKD	REMARKS

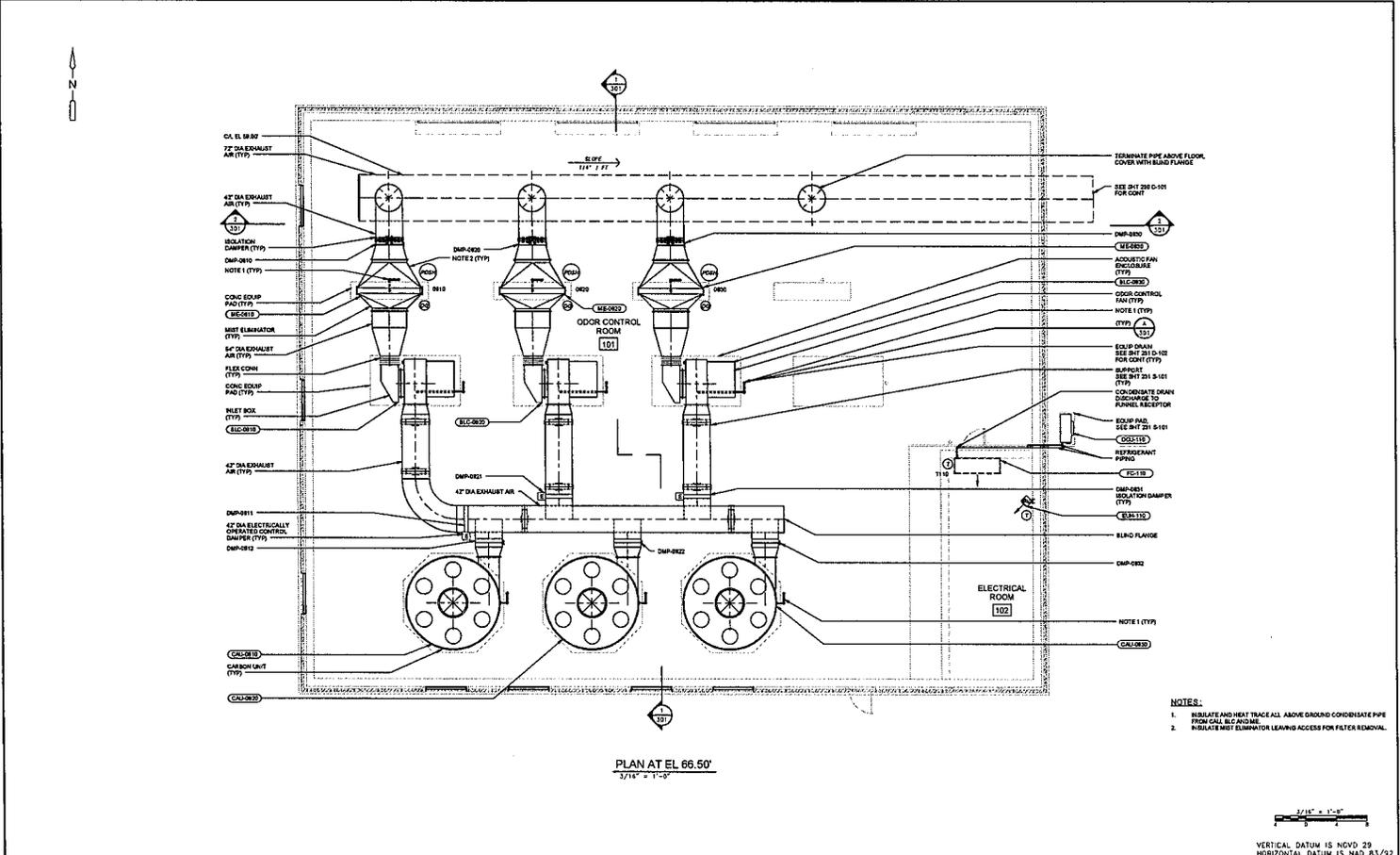
90% SUBMITTAL
NOT FOR
CONSTRUCTION

AECOM
CONTRACT NO. 20XX-XX
SOUTH HARTFORD CONVEYANCE
AND STORAGE TUNNEL

CONTRACT 2
GENERAL
SCHEDULES AND DETAILS
ARCHITECTURAL

PLAN NUMBER
SHEET NO.
299A-501

VERTICAL DATUM IS NOV 29
HORIZONTAL DATUM IS MAR 83/92



PLAN AT EL 66.50'
3/16" = 1'-0"

- NOTES:**
- INSULATE AND HEAT TRACE ALL ABOVE GROUND CONDENSATE PIPE FROM CALL BLOCINGS.
 - INSULATE MIST ELIMINATOR LEAVING ACCESS FOR FILTER REMOVAL.

VERTICAL DATUM IS NGVD 29
HORIZONTAL DATUM IS NAD 83/92

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REV.	DATE	BY	CHKD	REMARKS

90% SUBMITTAL
NOT FOR
CONSTRUCTION

AECOM 100 ENTERPRISE DRIVE, SUITE 100
BLOOMINGDALE, ILLINOIS 60010
PHONE (708) 811-1800

BLACK & VEATCH

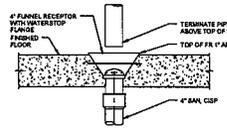
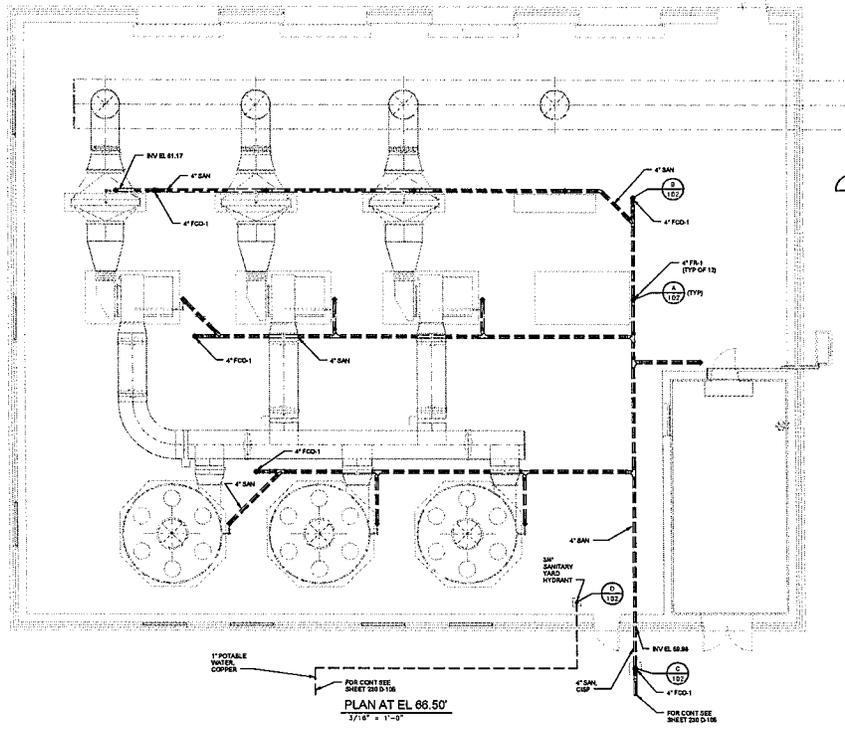
CONTRACT NO. 20XX-XX
SOUTH HARTFORD CONVEYANCE
AND STORAGE TUNNEL

CONTRACT 2
RETRIEVAL SHAFT
ODOR CONTROL PLAN
MECHANICAL

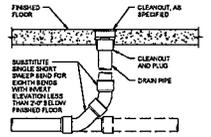
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SHEET NO.	231 D-101



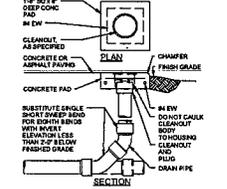
PLUMBING - PIPING ACCESSORIES SCHEDULE				
LIST NUMBER	MANUFACTURER	MODEL	DESCRIPTION	NOTES
FCD-1	BETH	451 8008	HEAVY DUTY FLOOR CLEANOUT, INCLUDES ROUND ADJUSTABLE COVER BRONZE TOP	
FA-1	BETH	BURIED SHOP FLOOR E0-S-179-02E	MEDIUM DUTY CAST IRON PANEL, RECEPTOR, WATER STOP FLANGE, WELDED OR WOVEN CONNECTION	



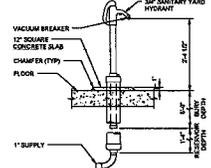
A FUNNEL DRAIN - NEW FLOOR
NO SCALE



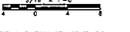
B FLOOR CLEANOUT - NEW FLOOR
NO SCALE



C GRADE CLEANOUT
NO SCALE



D POST HYDRANT
NO SCALE



VERTICAL DATUM IS NAVD 83
HORIZONTAL DATUM IS NAD 83/92

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555 Main Street
Hartford, Connecticut

REV.	DATE	BY	CHKD.	REVISIONS

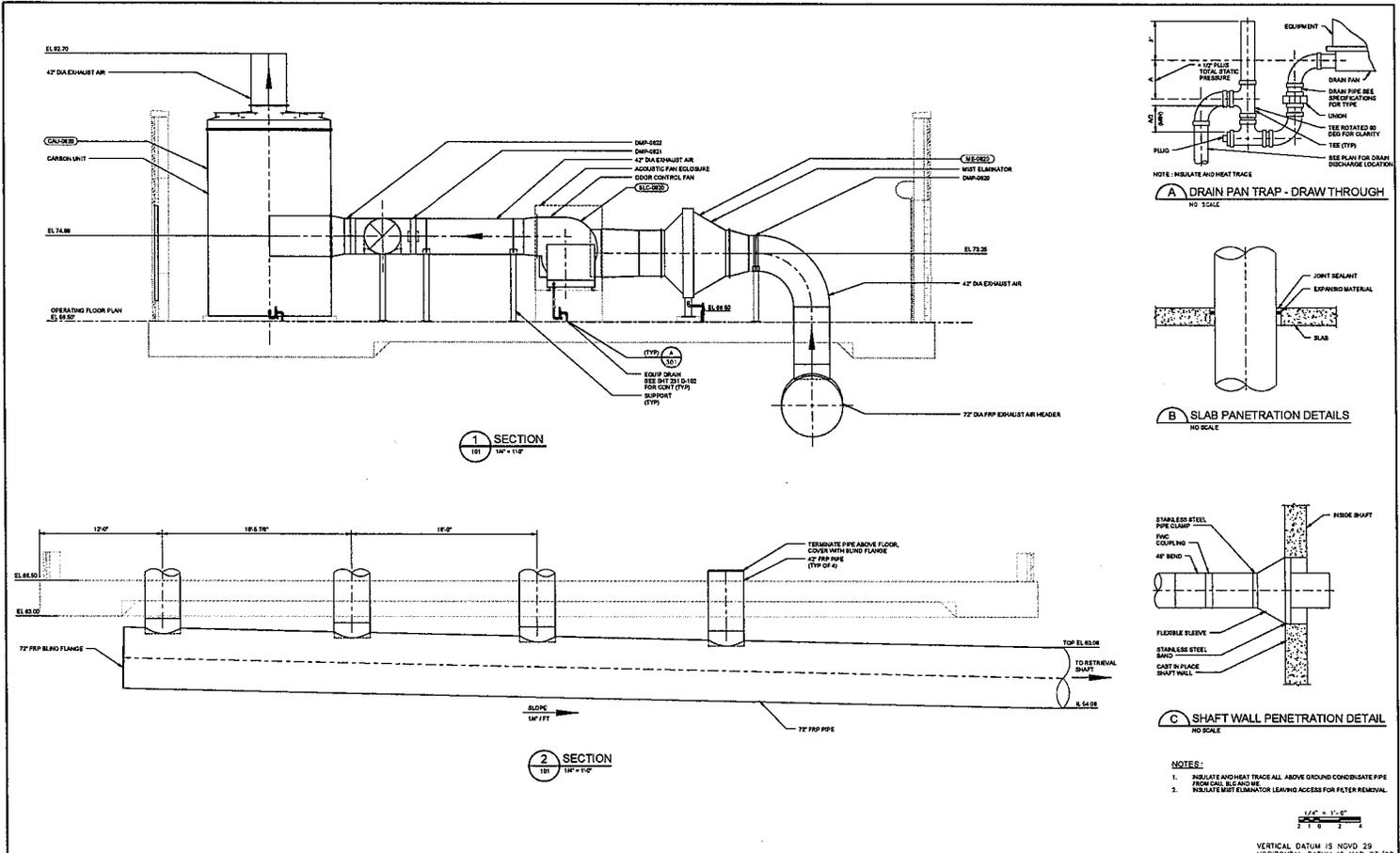
90% SUBMITTAL
NOT FOR
CONSTRUCTION

AECOM 500 DIVERSE DRIVE, SUITE 114
ROCKY HILL, CT 06109
PHONE: (860) 511-5000
FAX: (860) 511-5001

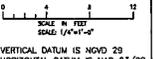
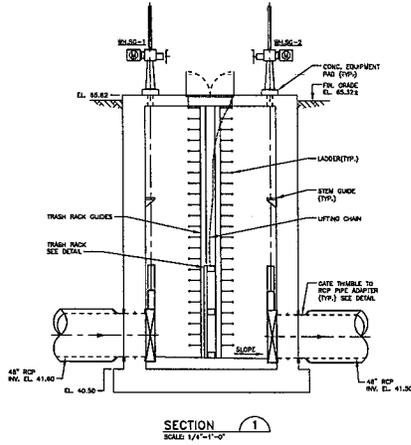
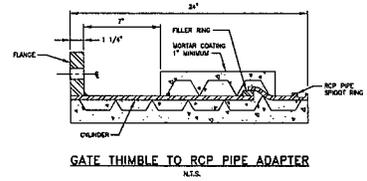
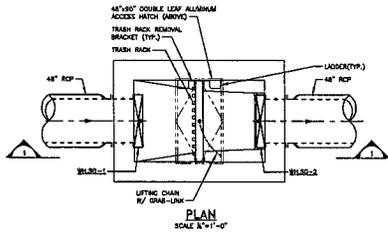
CONTRACT NO. 20XX-XX
SOUTH HARTFORD CONVEYANCE
AND STORAGE TUNNEL

CONTRACT 2
**RETRIEVAL SHAFT
PLUMBING PLAN, DETAILS AND
SCHEDULES**
MECHANICAL

PLAN NUMBER	SHEET NO.
	231 D-102



The Metropolitan District 555 Main Street Hartford, Connecticut	FILE NAME: _____ DESIGNED BY: _____ DRAWN BY: _____ CHECKED BY: _____ APPROVED BY: _____ DATE: FEBRUARY 2013	90% SUBMITTAL NOT FOR CONSTRUCTION	AECOM 100 WILLOW BROOK, SUITE 1A WESTFIELD, CT 06097 PHONE: (860) 331-1800 FAX: (860) 331-1800 BLACK & VEATCH	CONTRACT 2 RETRIEVAL SHAFT SECTION AND DETAILS MECHANICAL	PLAN NUMBER SHEET NO. 231 D-301													
	<table border="1"> <thead> <tr> <th>REV.</th> <th>DATE</th> <th>BY</th> <th>CHKD</th> <th>REMARKS</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	REV.	DATE	BY	CHKD	REMARKS											CONTRACT NO. 20XX-XX SOUTH HARTFORD CONVEYANCE AND STORAGE TUNNEL	CONTRACT 2 RETRIEVAL SHAFT SECTION AND DETAILS MECHANICAL
REV.	DATE	BY	CHKD	REMARKS														



VERTICAL DATUM IS NAVD 25
HORIZONTAL DATUM IS MAG 83/92

MDC
The Metropolitan District
555 Main Street
Hartford, Connecticut

REV.	DATE	BY	CHKD	REMARKS

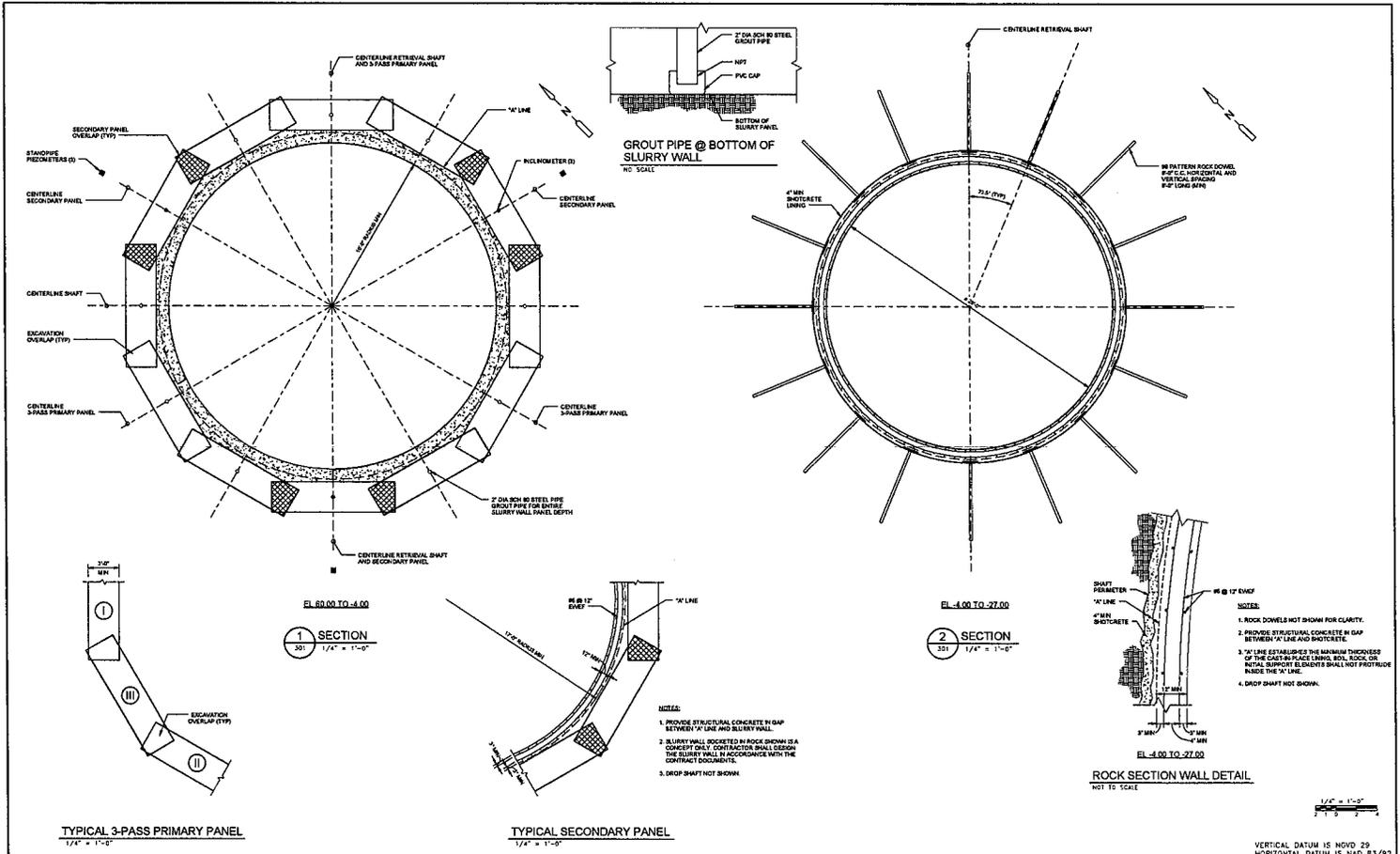
FILE NO. 240-D-101
DESIGNED BY
CHECKED BY
DATE
DRAWN BY
APPROVED BY
DATE

AECOM
90% SUBMITTAL
NOT FOR
CONSTRUCTION

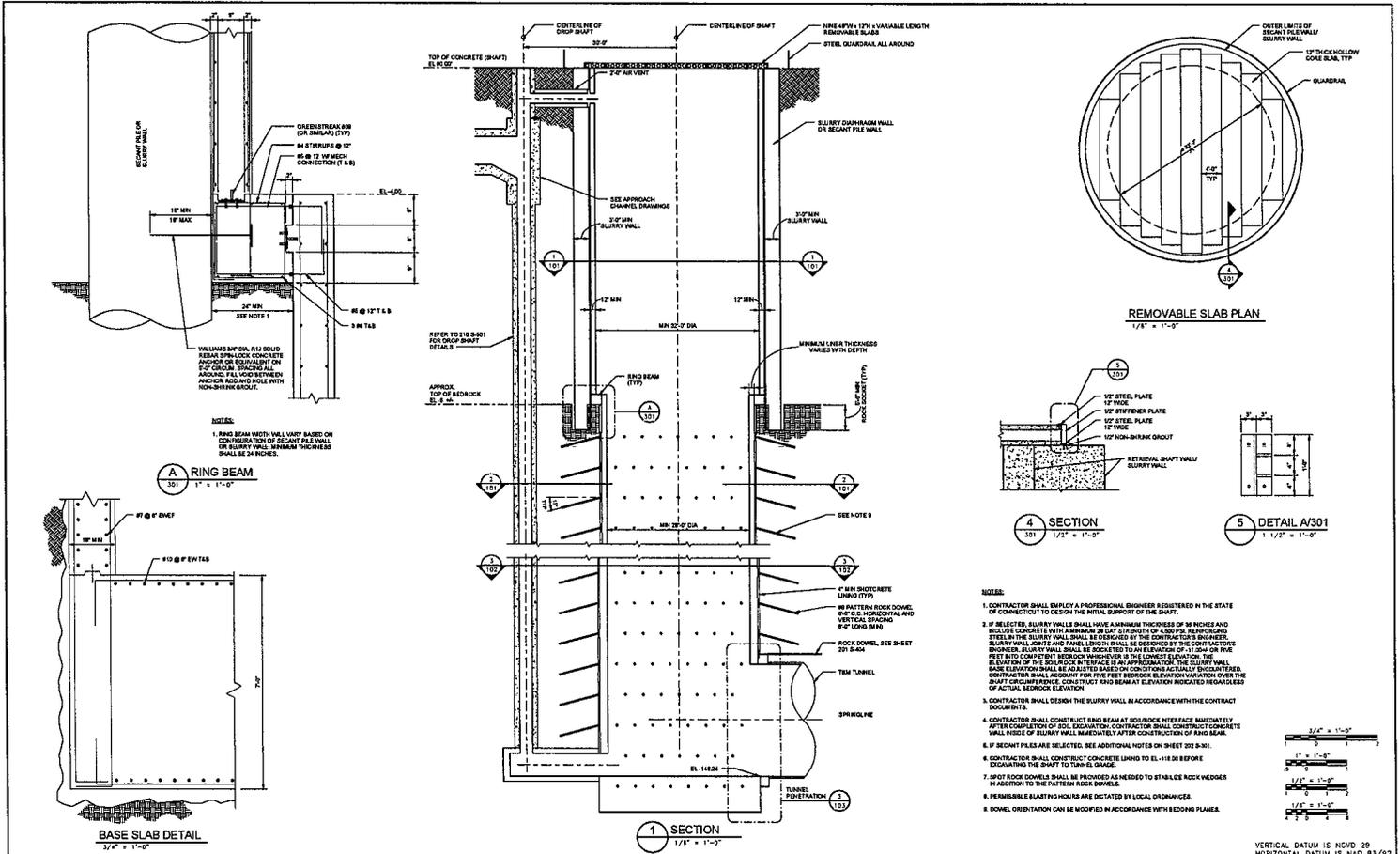
CONTRACT NO. 20XX-XX
SOUTH HARTFORD CONVEYANCE AND
STORAGE TUNNEL

CONTRACT 2
WEST HARTFORD INLET
CONTROL GATE CHAMBER
MECHANICAL PROCESS

PLAN NUMBER
SHEET NO.
240 D-101



The Metropolitan District 555 Main Street Hartford, Connecticut	PREPARED BY: CEM CHECKED BY: CEM DATE: 02/20/14 APPROVED BY: CEM DATE: FEBRUARY 2014	90% SUBMITTAL NOT FOR CONSTRUCTION	AECOM 500 GLENVIEW AVENUE, SUITE 14 SOUTH HARTFORD, CT 06110 PHONE: (860) 321-1500 FAX: (860) 321-1501 BLACKVEATCH	CONTRACT 2 RETRIEVAL SHAFT PLANS STRUCTURAL	PLAN NUMBER SHEET NO. 203 S-101
	CONTRACT NO. 20XX-XX SOUTH HARTFORD CONVEYANCE AND STORAGE TUNNEL	CONTRACT 2 RETRIEVAL SHAFT PLANS STRUCTURAL		SHEET NO. 203 S-101	



NOTES:
 1. RING BEAM WIDTH WILL VARY BASED ON CONSTRUCTION OF SECANT PILE WALL OR SLURRY WALL. MINIMUM THICKNESS SHALL BE 24 INCHES.

- NOTES:
1. CONTRACTOR SHALL EMPLOY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF CONNECTICUT TO DESIGN THE SHAFT.
 2. IF SELECTED, SLURRY WALLS SHALL HAVE A MINIMUM THICKNESS OF 36 INCHES AND INCLUDE CONCRETE WITH A MINIMUM 28 DAY STRENGTH OF 4000 PSI. REINFORCING STEEL IN THE SLURRY WALL SHALL BE DESIGNED BY THE CONTRACTOR'S ENGINEER. SLURRY WALL JOINTS SHALL BE DESIGNED BY THE CONTRACTOR'S ENGINEER. SLURRY WALL SHALL BE SUBJECT TO A MINIMUM OF 12 INCH OR FEET INTO COMPACT BEDROCK UNLESS OTHERWISE SPECIFIED. THE ELEVATION OF THE SIDE ROCK INTERFACE IS AN APPROXIMATION. THE SLURRY WALL BASE ELEVATION SHALL BE AS NOTED BASED ON CONDITIONS ACTUALLY ENCOUNTERED. CONTRACTOR SHALL ACCOUNT FOR FIVE FEET BEDROCK ELEVATION VARIATION OVER THE SHAFT CIRCUMFERENCE. CONTRACTOR RING BEAM AT ELEVATION INDICATED REGARDLESS OF ACTUAL BEDROCK ELEVATION.
 3. CONTRACTOR SHALL DESIGN THE SLURRY WALL IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
 4. CONTRACTOR SHALL CONSTRUCT RING BEAM AT SOIL/ROCK INTERFACE IMMEDIATELY AFTER COMPLETION OF SOIL EXCAVATION. CONTRACTOR SHALL CONSTRUCT CONCRETE WALL EDGE OF SLURRY WALL IMMEDIATELY AFTER CONSTRUCTION OF RING BEAM.
 5. IF SECANT PILES ARE SELECTED, SEE ADDITIONAL NOTES ON SHEET 203 S-31.
 6. CONTRACTOR SHALL CONSTRUCT CONCRETE LINING TO EL +18.20 BEFORE EXCAVATING THE SHAFT TO TUNNEL GRADE.
 7. SPOT ROCK DOWELS SHALL BE PROVIDED AS NEEDED TO STABILIZE ROCK WEDGES IN ADDITION TO THE PATERN ROCK DOWELS.
 8. PERMISSIBLE SLANT TOLERANCES ARE DELETED BY LOCAL ORDINANCE.
 9. DOWEL ORIENTATION CAN BE MODIFIED IN ACCORDANCE WITH BEDROCK PLACES.

MDC The Metropolitan District
 555 Main Street
 Hartford, Connecticut

REV.	DATE	BY	CHKD.	REMARKS

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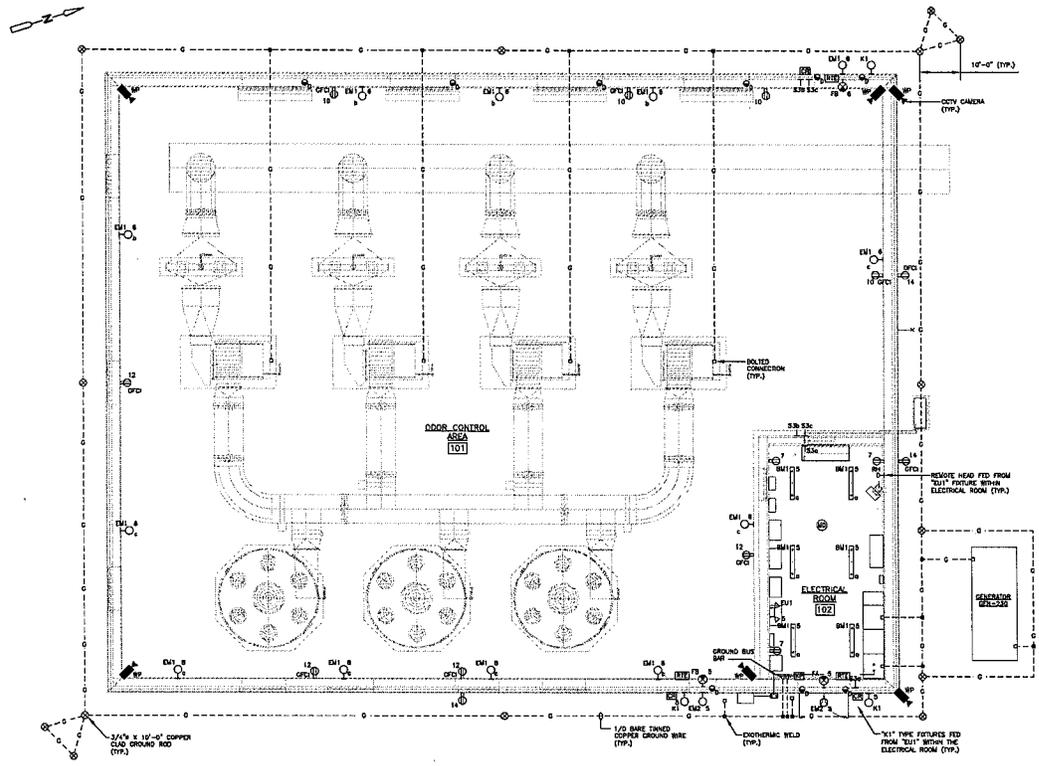
AECOM 500 WATERBURY STREET, SUITE 14
 SUITE 1400, 1400
 ROCKY HILL, CT 06109
 CONTRACT NO. 20XX-XX
 SOUTH HARTFORD CONVEYANCE
 AND STORAGE TUNNEL

CONTRACT 2
 RETRIEVAL SHAFT
 SECTION
 STRUCTURAL

PLAN NUMBER
 SHEET NO.
 203 S-301

VERTICAL DATUM IS NGVD 29
 HORIZONTAL DATUM IS NAD 83/92

NOTES
 1. FOR LEGEND, SYMBOLS AND GENERAL NOTES SEE SHEET 00 E-001.



RETRIEVAL SHAFT
 ODOR CONTROL FACILITY
 SYSTEMS PLAN
 SCALE: 3/16" = 1'-0"

3/16" = 1'-0" SCALE
 VERTICAL DATUM IS NAVD 83
 HORIZONTAL DATUM IS NAD 83/22

MDC
 The Metropolitan District
 555 Main Street
 Hartford, Connecticut

REV. NO.	DATE	BY	CHKD.	REVISION

90% SUBMITTAL
 NOT FOR
 CONSTRUCTION

AECOM
 CONTRACT NO. 20XX-XX
 SOUTH HARTFORD CONVEYANCE AND
 STORAGE TUNNEL

CONTRACT 2
 RETRIEVAL SHAFT AND WEST HARTFORD
 CONDUIT SYSTEMS PLAN
 ELECTRICAL

PLAN NUMBER
 SHEET NO.
 230 E-104

LUMINAIRE SCHEDULE					
LUMINAIRE	LAMP	VOLTAGE	MANUFACTURER AND BASE MODEL NUMBER		REMARKS AND OPTIONS
TYPE	WTD	TYPE	WATT		
BWF	FLUO	2-32	120	HOOPLANE SERIES CONTROLINE	OR EQUAL LUMINAIRE 4'-0" BY 24" HORIZONTAL POLYCARBONATE HOUSING, UV STABILIZED POLYCARBONATE LENS, SPREAD LIGHT DISTRIBUTION, GENERAL ELECTRONIC BALLAST, SEE LOCATION LISTED.
EMT	WALL	LED	70	LITHONIA SERIES C28V	OR EQUAL WALL LUMINAIRE, DIE CAST ALUMINUM HOUSING, ALUMINUM REFLECTOR, ACRYLIC LENS - WETS TO AESTHETIC RATED, LED'S MOUNTED TO CORE CIRCULAR BOARD, 5-TYP. DIMMING, HIGH EFFICIENCY DRIVER, AROOK LED'S, THERMOSET POWDER COAT PANEL, DARK BRONZE FINISH, BUC FINISH OF 2-0-2 (GMP BY COMPLIANT), MINIMUM CR OF 76, SEE LOCATION.
EM2	WALL	LED	70	LITHONIA SERIES C28H	OR EQUAL WALL LUMINAIRE, DIE CAST ALUMINUM HOUSING, ALUMINUM REFLECTOR, ACRYLIC LENS - WETS TO AESTHETIC RATED, LED'S MOUNTED TO CORE CIRCULAR BOARD, 5-TYP. DIMMING, HIGH EFFICIENCY DRIVER, AROOK LED'S, THERMOSET POWDER COAT PANEL, DARK BRONZE FINISH, BUC FINISH OF 2-0-2 (GMP BY COMPLIANT), MINIMUM CR OF 76, SEE LOCATION.
EMV	WALL	RECP/COMP	2-8	LITHONIA SERIES ULM 8-12	OR EQUAL EMERGENCY LUMINAIRE, BITE OF STEEL, THERMOPLASTIC HOUSING, EQUIPPED WITH LED'S, 24 BATT. NICEL-CADMIUM BATTERY, 2-8 WATT, 100% EFFICIENCY, SELF-CHARGING, SEE LOCATION LISTED.
FA	FLUO/RAIL	LED	120	LITHONIA SERIES S10L	OR EQUAL EXIT SIGN, INJECTION-MOLDED ACRYLIC ENCLOSURE, SINGLE FACE, RED LETTERS, WHITE BACKGROUND, NICHEL-CADMIUM BATTERY, SELF-CHARGING, SEE LOCATION LISTED.
FB	FLUO/RAIL	LED	120	EMERGENCY-LITE SERIES SURVIVE-ALL	OR EQUAL EXIT SIGN, POLYVINYL CHLORIDE ENCLOSURE, 100% EFFICIENCY, SINGLE FACE, RED LETTERS, GRAY BACKGROUND, NICHEL-CADMIUM BATTERY, SELF-CHARGING, SEE LOCATION LISTED.
K1	WALL	HALOGEN	12	LITHONIA ELA NR	OR EQUAL EMERGENCY LUMINAIRE, WEATHER-RESISTANT, LED REMOTE SIGNAL, 12 WATT, WET LOCATION.

EMERGENCY FIXTURES

EQUIPMENT GROUNDING SCHEDULE			
EQUIPMENT	GROUNDING CONDUCTOR AND SIZE	QUANTITY	NOTES
100 AMP DISTRIBUTION PANEL	(3)	ONE	TO GROUNDING BUS BAR
100 AMP 500 TYPE TRANSFORMER	(3)	ONE	TO GROUNDING BUS BAR
DRYER AND HEATED TRANSFORMER	(1)	TWO	TO GROUNDING LOOP
50 HP TO LESS THAN 100 HP VFD UNIT	(4)	ONE	TO GROUNDING BUS BAR
PLC CONTROL PANELS	(3)	ONE	TO GROUNDING BUS BAR
DISTRIBUTION PANELS	(1)	TWO	TO GROUNDING BUS BAR
100 VAC EQUIPMENT LOCAL CONTROL PANELS	(3)	ONE	TO GROUNDING BUS BAR
GENERATOR ENCLOSURE	(7)	TWO	TO GROUNDING LOOP
ANY STEEL TANK	(4)	TWO	FOR GROUND TO THE GROUNDING LOOP OR TO THE NEAREST GROUND BUS BAR
GROUND BUS BAR	(7)	TWO	TO GROUNDING LOOP
CONDUIT	(4)	ONE	TO GROUNDING BUS BAR

AREA CLASSIFICATION SCHEDULE						
LOCATION	AREA TYPE					CLASS 1 DIV 2
	1	3	4	4X	12	
ELECTRICAL ROOM (E1)	X					CLASS 1 DIV 2
ODOR CONTROL AREA (E2)						X (R1)
RECEPTION				X		
WALL CONTROL CABINETS						X (R2) X (R3)
WALL INTERIOR						X (R2) X (R3)
WALL EXTERIOR STRUCTURE (E3)						X (R2) X (R3)
WALL INTERIOR						X (R2) X (R3)
DOORS, RECEPTION, SHOWER						X (R2) X (R3)
WALL INTERIOR						X (R2) X (R3)

R1 - AREA WITHIN 3'-0" OF LEAKAGE SOURCES SUCH AS PANS, DUMPS, FLEETRY CONNECTIONS, FLANGES, PRESSURIZED VESSELS, ETC. REFER TO DOOR CONTROL CLASSIFICATION DETAIL FOR FURTHER DETAILS.
R2 - CLASS 1 DIV 1 BROWN W/WHITE, CLASS 1 DIV 2 BROWN. REFER TO W/WHITE/W/WHITE CLASSIFICATION DETAIL FOR DETAIL OF CLASS 1, DIV 2 BROWN.

CONDUIT AND WIRING SCHEDULE

CONDUIT	WIRING	REMARKS
(A)	3/4" 2-12 AWG, 1-12 AWG (3)	(C) 1% VENDOR SUPPLIED CABLE
(B)	3/4" 2-12 AWG, 1-12 AWG (3)	(C) 3/4" 1-TYP 18 AWG
(C)	3/4" 2-12 AWG, 1-12 AWG (3)	(C) 1% 2-TYP 18 AWG
(D)	3/4" 2-12 AWG, 1-12 AWG (3)	(C) 1% 2-TYP 18 AWG
(E)	3/4" 2-12 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(F)	1% 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(G)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(H)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(I)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(J)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(K)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(L)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(M)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(N)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(O)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(P)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(Q)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(R)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(S)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(T)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(U)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(V)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(W)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(X)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(Y)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(Z)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(AA)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(AB)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(AC)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(AD)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(AE)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(AF)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(AG)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(AH)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(AI)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(AJ)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(AK)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(AL)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(AM)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(AN)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(AO)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(AP)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(AQ)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(AR)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(AS)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(AT)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(AU)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(AV)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(AW)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(AX)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(AY)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(AZ)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(BA)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(BB)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(BC)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(BD)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(BE)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(BF)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(BG)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(BH)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(BI)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(BJ)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(BK)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(BL)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(BM)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(BN)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(BO)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(BP)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(BQ)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(BR)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(BS)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(BT)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(BU)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(BV)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(BW)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(BX)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(BY)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(BZ)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(CA)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(CB)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(CC)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(CD)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(CE)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(CF)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(CG)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(CH)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(CI)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(CJ)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(CK)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(CL)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(CM)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(CN)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(CO)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(CP)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(CQ)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(CR)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(CS)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(CT)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(CU)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(CV)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(CW)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(CX)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(CY)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(CZ)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(DA)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(DB)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(DC)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(DD)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(DE)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(DF)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(DG)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(DH)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(DI)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(DJ)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(DK)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(DL)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(DM)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(DN)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(DO)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(DP)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(DQ)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(DR)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(DS)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(DT)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(DU)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(DV)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(DW)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(DX)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(DY)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(DZ)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(EA)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(EB)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(EC)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(ED)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(EE)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(EF)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(EG)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(EH)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(EI)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(EJ)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(EK)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(EL)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(EM)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(EN)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(EO)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
(EP)	1 1/2" 2-4 AWG, 1-12 AWG (3)	(C) 1 1/2" 2-TYP 18 AWG
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