INDEX TO DRAWINGS

SHEET NO. DESCRIPTION COVER SHEET PAY ITEMS P-1 ADMINISTRATION BLDG. ROOF DEMOLITION PLAN A-1 ADMINISTRATION BLDG. TAPERED INSULATION LAYOUT ROOF PLAN A-2 A-3 ADMINISTRATION BLDG. NEW ROOF PLAN FILTER GALLERY BLDG. ROOF DEMOLITION PLAN B-1 FILTER GALLERY BLDG. TAPERED INSULATION LAYOUT ROOF PLAN B-2 FILTER GALLERY BLDG. NEW ROOF PLAN B-3 ADMINISTRATION BLDG. CANOPY ROOF DEMOLITION PLAN C-1 ADMINISTRATION BLDG. CANOPY TAPERED INSULATION LAYOUT C-2 ADMINISTRATION BLDG. CANOPY NEW ROOF PLAN C-3 D-1 SLUDGE DEWATERING FACILITY DEMO PLAN D-2 SLUDGE DEWATERING FACILITY TAPERED INSULATION PLAN LAYOUT **ROOF PLAN** SLUDGE DEWATERING FACILITY NEW ROOF PLAN D-3 SLUDGE DEWATERING BLDG CANOPY ELEVATIONS & SOFFIT PLAN D-4 56TH ST N TPO ROOF DETAILS R-1 R-2 TPO ROOF DETAILS 46TH ST N TPO ROOF DETAILS R-3

> A.B. JEWELL WATER TREATMENT PLANT

36TH ST N

APACHE ST

NEWTON S

EDISON ST

41ST ST

61ST ST

91ST ST

131ST S

UTILITY COORDINATION NUMBER ENGINEERING SERVICES WATER DESIGN 918-596-9566 WASTEWATER DESIGN 918-596-9564 TRANSPORTATION DESIGN 918-596-9636 918-596-9749 918-596-9498 STORMWATER DESIGN PARKS MAINTENANCE 918-596-2486 OKLAHOMA NATURAL GAS CO 918-831-8293 COX COMMUNICATIONS 918-286-4666 PUBLIC SERVICE CO. / AEF 918-599-2233 918-576-2142 CITY OPERATIONS AND MAINTENANCE 918-596-9389 CALL OKIE 800-522-6543 OR 81

TPO ROOF DETAILS

TPO ROOF DETAILS

FASCIA DETAILS

METAL SOFFIT DETAILS

R-4

R-5

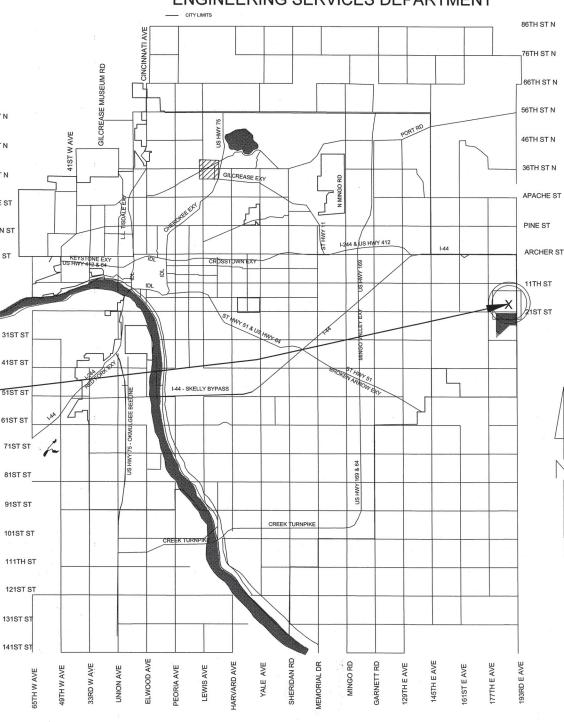
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R-7



CONSTRUCTION PLANS ROOF REPLACEMENTS A.B. JEWELL WATER TREATMENT PLANT

18707 EAST 21ST STREET TULSA. OKLAHOMA PROJECT NO. SP 18-02 ACCOUNT NO. 7403323-542601 CITY OF TULSA OKLAHOMA **ENGINEERING SERVICES DEPARTMENT**



GENERAL NOTES

ALL CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH CURRENT CITY OF TULSA CODES AND ORDINANCES, ENGINEERING SERVICES STANDARDS & PARKS STANDARDS & SPECIFICATIONS (CITY OF TULSA ORDINANCE AND CODES AMENDMENTS SUPERCEDE NATIONAL CODES)

CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO ALL STRUCTURES, LANDSCAPING, PAVING, AND ANY OTHER ITEMS LOCATED WTIHIN AND OUTSIDE THE WORK AREA. ANY DAMAGE TO PERMANENT ITEMS INCURRED BY THE CONTRACTOR THROUGH HIS WORK IN THIS CONTRACT SHALL BE REPAIRED TO ORIGINAL CONDITION, BY THE CONTRACTOR. AT HIS OWN EXPENSE.

CONTRACTORS SHALL COORDINATE WITH IDENTIFIED MAINTENANCE OPERATIONS PERSONNEL FOR APPLICATION, SHUT OFF, AND REMOVAL OF ALL UTILITIES.

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND QUANTITIES.





OKLAHOMA CERTIFICATE OF AUTHORITY #91 EXPIRES 7-30-2021



CYNTERGY, L.L.C. 810 S CINCINNATI AVE, 2ND FLOOR, TULSA, OK. 74119 918-877-6000 CYNTERGY ENGINEERING P.L.L.C. CA#3537 EXP. 6-30-2022

ROOF CONSULTANTS 5350 E. 46TH ST. SUITE 116 TULSA, OK 74135 918-660-6844



APPROVED BY

CITY ENGINEER

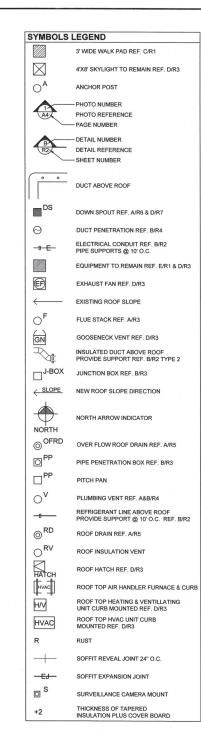
11-12.20 DATE

11-3-20

WATER & SEWER DIRECTOR

DATE

	epro 110	DESCRIPTION		T	EM SCHEDULE
	SPEC. NO.	DESCRIPTION	UNIT	QUANTITY	QUANTITIES ADS ADQUITEST/Shoulded Softwares And Tile 1997
000		'ALL PAY ITEMS	NA	NA	QUANTITIES ARE ARCHITECT/ENGINEER ESTIMATES AND THE UNIT PRICES QUOTED ARE FOR CHANGE IN SCOPE PURPOSES ONLY. CONTRACTORS SHALL HAVE BID EACH ITEM AS COMPLETE, NET IN PLACE, FOR THE TOTAL PROJECT FROM PERSONAL OBSERVATION AND SHALL NOT RELY ON EXTENDED QUANTITIES TO INCREASE PRICE ABOVE ORIGINAL BID. NO EXTENDED QUANTITIES OR ADDITIONAL PAYMENT ALLOWED FOR GROSS QUANTITIES, EXCESS OR UNUSED CONSTRUCTION WASTE.
001	BIDDING DOCUMENTS & DIVISION ONE	GENERAL REQUIREMENTS	EA	1	GENERAL REQUIREMENTS: GENERAL CONDITIONS AND MISCELLANEOUS DIRECT AND INDIRECT PROJECT COSTS REQUIRED BY THE CONTRACT DOCUMENTS BUT NOT LISTED AS A SPECIFIC UNIT PRICE PAY ITEM IN THE PROPOSAL. INCLUDES, BUT IS NOT LIMITED TO: MISCELLANEOUS NON-STAFFING COSTS DIRECTLY RELATED TO THE PROJECT, SUCH AS JOB TRAILER, MOBILIZATION, PERMIT FEES (OTHER THAN BUILDING PERMIT PROVIDED BY CITY OF TULSA), TEMPORARY UTILITIES PERMANENT UTILITY CONNECTION FEES, BARRIERS, SCAFFOLDING, EQUIPMENT RENTAL, CLEANING AND DUMPSTERS, ETC. EACH UNIT PRICE WILL BE DEEMED TO INCLUDE AN AMOUNT CONSIDERED BY THE CONTRACTOR TO BE ADEQUATE TO COVER CONTRACTOR'S OVERHEAD AND PROFIT FOR EACH SEPARATELY IDENTIFIED ITEM.
002	012100	OWNER ALLOWANCE	ALLOW	1	ALLOWANCE INCLUDED FOR UNFORESEEN CONDITIONS REQUIRING ADDITIONAL WORK NOT DEFINED IN THE CONTRACT DOCUMENTS. USED ONLY AT THE DISCRETION OF THE OWNER, IN STRICT ACCORDANCE WITH THE REFERENCED SPECIFICATION SECTION.
003		CONCRETE ROOF DECK (REPAIR)	SF	100	REPAIR AND PREPARE CONCRETE ROOF DECK TO RECEIVE NEW MEMBRANE ROOFING SYSTEM. RESTORE DECK WITH REPAIR MORTAR. INJECT CRACKS WITH EPOXY AS INSTRUCTED BY ARCHITECT AND STRUCTURAL ENGINEER.
004	053100	STEEL DECKING (REPAIR)	SF	100	TREAT RUSTED METAL DECK WITH RUST PENETRATING SEALER.
005	053100	STEEL DECKING (REPLACE OR OVERLAY)	SF	100	PREPARE DAMAGED METAL DECK WITH OVERLAY OF 22 GAGE METAL DECK OR 22 GAGE FLAT METAL (AS INSTRUCTED BY ARCHITECT).
006	061140	ROUGH CARPENTRY (Wood Blocking and Curbing)	LF	100	REPLACE ROTTED AND DAMAGED WOODEN CANTS & NAILERS WITH NEW TREATED LUMBER, IN STRICT ACCORDANCE WITH WITH THE DRAWINGS AND SPECIFICATIONS. REMOVE EXISTING ROOFING SYSTEM IN PREPARATION FOR NEW. INCLUDES REMOVAL AND
007	070150	PREPARATION FOR RE-ROOFING	EA	1 1 1	DISPOSAL OF EXISTING ROOFING AND WATERPROOFING SYSTEM DOWN TO STRUCTURAL DECK, PARAPETS AND OTHER SUBSTRATES. INCLUDES EXISTING ABANDONED EQUIPMENT PLATFORMS, MECHANICAL EQUIPMENT, CURBS AND OTHER OBJECTS INTERFERING WITH NEW CONSTRUCTION AND INDICATED TO BE REMOVED. INCLUDES PROTECTING EXISTING EQUIPMENT WITHIN THE SLUDGE/DEWATERING BUILDING FROM DEBRIS DURING DEMOLITION. CONTRACTOR SHALL EXAMINI EXISTING SUBSTRATE(S) AND ADJACENT MATERIALS FOR RUST, DRY ROT AND OTHER DAMAGE WHICH COULD HINDER THE SUCCESSFUL APPLICATION OF NEW ROOFING SYSTEM. CONTACT ARCHITECT IMMEDIATELY UPON DISCOVERY OF DAMAGE.
800	075390	PRIME ROOF DECK SURFACE AND INSTALL VAPOR BARRIER	SF	23149	PRIME CONCRETE ROOF DECK SURFACE AFTER PREPARATION FOR REROOFING. INSTALL VAPOR BARRIER SYSTEM TO PRIMED SURFACE AS TEMPORARY ROOF DURING CONSTRUCTION.
009	075390	MEMBRANE ROOFING SYSTEM	SF	23965	THERMOPLASTIC POLYOLEFIN (TPO) SINGLE-PLY MEMBRANE ROOFING SYSTEM, WITH SPECIFIED WARRANTY. ROOFING SYSTEM INCLUDES, SINGLE-PLY MEMBRANE 60 MIL FLEECE-BACKED), FULLY-ADHERED TO COVERBOARD, OVER TAPERED AND NON-TAPERED INSULATION (R-25 MIN), FASTENED TO DECK AS SHOWN ON DRAWINGS; MEMBRANE FLASHINGS, STAINLESS STEEL SHEET METAL FLASHINGS AND CUNTER-FLASHINGS, ROPORING SPECIALTIES, COPINGS AND CURBS, INCLUDES ALL LABOR, EQUIPMENT, AND MATERIALS REQUIRED FOR A COMPLETE INSTALLATION OF A FULLY WARRANTED AND WATERPROOF MEMBRANE ROOFING SYSTEM, COMPLETE. CONTRACTOR SHALL CONFINEM HIS OWN QUANTITIES AND BID THE ENTIRE ROOF SYSTEM ACCORDINGLY. NO ADDITIONAL MATERIAL OR LABOR COST ALLOWED FOR VERTICAL FLASHING OR OTHER COMPONERTS OF THE COMPLETE MOOFING SYSTEM.
010	075390	WALK PADS	LF	535	INSTALL 3'-0" WIDE SPECIFIED WALK PADS IN AREAS AS INDICATED ON DRAWINGS.
011	077110	ROOF SPECIALTIES (Copings)	LF	1204	FURNISH AND INSTALL METAL COPINGS AS INDICATED ON DRAWINGS AND SPECIFIED. INCLUDES ALL LABOR, EQUIPMENT, AND MATERIALS REQUIRED FOR A COMPLETE INSTALLATION OF A FULLY WATERPROOF AND WARRANTED SYSTEM.
012	077110	ROOF SPECIALTIES (Fascia)	LF	688	FURNISH AND INSTALL METAL FASCIA AS INDICATED ON DRAWINGS AND SPECIFIED. INCLUDES ALL LABOR, EQUIPMENT, AND MATERIALS REQUIRED FOR A COMPLETE INSTALLATION OF A FULLY WATERPROOF AND WARRANTED SYSTEM.
013	076310	GUTTERS AND DOWNSPOUTS	LF	207	PURNISH AND INSTALL PRODUCTS IN ACCORDANCE WITH DRAWMOS, SPECIFICATIONS AND MANUFACTURER'S INSTRUCTIONS. INSTALL WITH LINES AND CORNERS TRUE AND ACCURATE, AND IN PROPER ALIGNMENT FOR POSITIVE DRAINAGE. COORDINATE INSTALLATION WITH OTHER SUBSTRATES, FLASHING AND TRIM, PARAPETS, COPINGS, WALLS AND OTHER ADJACENT WORK. PAITEM QUANTITY SHOWN INDICATES TOTAL LENGTH OF GUTTERS AND DOWNSPOUTS. CONTRACTOR SHALL CONFIRM HIS OWN QUANTITIES AND BID THE ENTIRE GUTTER AND DOWNSPOUT SYSTEM COMPLETE. NO ADDITIONAL COST ALLOWED FOR VARIATIONS BETWEEN QUANTITIES NOTED AND CONTRACTOR'S CONFIRMED QUANTITIES.
014	077200	ROOF ACCESSORIES (Safety Post)	EA	1	FURNISH AND INSTALL FACTORY-FABRICATED LADDER SAFETY POSTS READY FOR INTENDED USE IT ACCORDANCE WITH DRAWINGS AND SPECIFICATIONS.
015	092400	PORTLAND CEMENT STUCCO	SF	1244	DEMO AND REPLACE DAMAGED STUCCO FASCIA AND SOFFIT AREA, WITH NEW STRUCTURAL COMPONENTS AND STUCCO SYSTEM ON SLUDGE BUILDING. PERFORM THE WORK IN ACCORDANCE WITH DRAWNIGS AND SPECIFICATIONS AND AS REQUIRED FOR A COMPLETE INSTALLATION.
016		ACOUSTICAL CEILINGS	EA	12	REPLACE WATER DAMAGED CEILING TILES AND LIGHT LENSES WITH NEW AS DIRECTED BY ARCHITECT.
017	099100	PAINTING & COATING	SF	10	PREPARE SURFACES AND SUBSTRATES FOR PAINT SYSTEMS APPLICATION. PAINT AREAS AS INDICATED ON DRAWINGS. PERFORM THE WORK IN STRICT ACCORDANCE WITH THE DRAWINGS ANI SPECIFICATIONS AND AS REQUIRED FOR A COMPLETE INSTALLATION.
018	220000	PLUMBING WORK	SYS	1	MISCELLANEOUS WORK ON PLUMBING, WATER, GAS, DRAINAGE AS INDICATED ON DRAWINGS AND SPECIFICATIONS.
019	221000	PLUMBING FIXTURES (Roof Hydrant)	EA	1	FURNISH AND INSTALL ROOF HYDRANT IN STRICT ACCORDANCE WITH DRAWINGS, SPECIFICATIONS AND MANUFACTURER'S INSTRUCTIONS. CONNECT TO PERMANENT POTABLE WATER SOURCE FROM INSIDE OF BUILDING.
020	077100	RETROFIT ROOF DRAINS	EA	18	FURNISH AND INSTALL RETROFIT ROOF DRAINS AS INDICATED ON THE DRAWINGS AND AS SPECIFIED. INCLUDES ALL LABOR, EQUIPMENT AND MATERIALS AS REQUIRED FOR A COMPLETE INSTALLATION.
021	230000	MECHANICAL WORK	SYS	1	REMAJE FRETUKE DICTIONS TO FACILITATE ROOFING MORK
022		ROOFTOP UNIT - REMOVE AND REINSTALL	EA	6	REMOVE EXISTING RTU'S INCLUDING ADAPTERS IF ANY, FROM ROOF IN ORDER TO RAISE OR REPLACE ROOF CURBS WITH NEW, ENSURING THAT DUCT CONNECTIONS TO THE UNIT ARE DISCONNECTED BEFORE LIFTING. ONCE NEW OR RAISED ROOF CURB AND ROOF FLASHING ARE INSTALLED, EXTEND AND ADJUST EXISTING DUCT WORK AS REQUIRED TO PROPERLY ALIGN, SEAT AND SEAL WITH REINSTALLED RTU'S AND ADAPTERS. RECONNECT ELECTRICAL, FUEL AND CONDENSATE DRAINAGE TO RTU TO PROVIDE A COMPLETE AND FUNCTIONAL HVAC SYSTEM.
023		TEMPORARY HVAC	WEEK	1	IN THE EVENT THAT EXISTING HVAC WILL BE OUT OF SERVICE FOR MORE THAN 5 DAYS AFTER DISABLING RTU'S, PROVIDE TEMPORARY HEATING AND COOLING TO OCCUPIED SPACES.
024	260000	ELECTRICAL WORK	sys	1	ALL LABOR, EQUIPMENT, AND MATERIALS REQUIRED TO DISCONNECT AND RECONNECT ELECTRICA SERVICES TO ROOFTOP EQUIPMENT AS NECESSARY FOR THE PROPER INSTALLATION OF ROOFING SYSTEM. PRICE TO INCLUDE REPLACEMENT OF ELECTRICAL COMPONENTS WHICH ARE FOUND TO BE NO LONGER SERVICEABLE; NEW PITCH PANS, BOOTS, CONDUIT SUPPORTS, ETC. IN ORDER TO RESTORE CIRCUITS TO PROPER OPERATION AS QUICKLY AS POSSIBLE.
025	260000	ELECTRICAL WORK	EA	2	PROVIDE WEATHERPROOF ELECTRICAL RECEPTACLE TO BE MOUNTED ON SIDE OF DESIGNATED RT AS SHOWN ON DRAWINGS OR DIRECTED BY ARCHITECT/ENGINEER.
026		ALTERNATE #1 - ADMIN BLDG	SYS	1	TPO SINGLE-PLY MEMBRANE, FULLY ADHERED TO COVERBOARD, OVER TAPERED AND NON-TAPERE (R=25 MIN), INSULATION. TPO ROOFING SYSTEM TO MATCH BASE BID SYSTEM.
		ALTERNATE #2 - 80 MIL FLEECEBACK MEMBRANE FOR ADMIN AND FILTER	sys	1	(R=25 MIN), INSULATION. THO ROUFING SYSTEM TO MALCH BASE BID SYSTEM. PROVIDE THICKER MEMBRANE. INCREASE WARRANTY TO 30 YEARS WITH 3" HAIL PROTECTION
027		GALLERY BLDGS			





EXPIRES 7-30-2021

ROOF REPLACEMENT A.B. JEWELL WATER TREATMENT PLANT

PROJECT NO. SP 18-02

CITY OF TULSA, OKLAHOMA ENGINEERING SERVICES DEPARTMENT

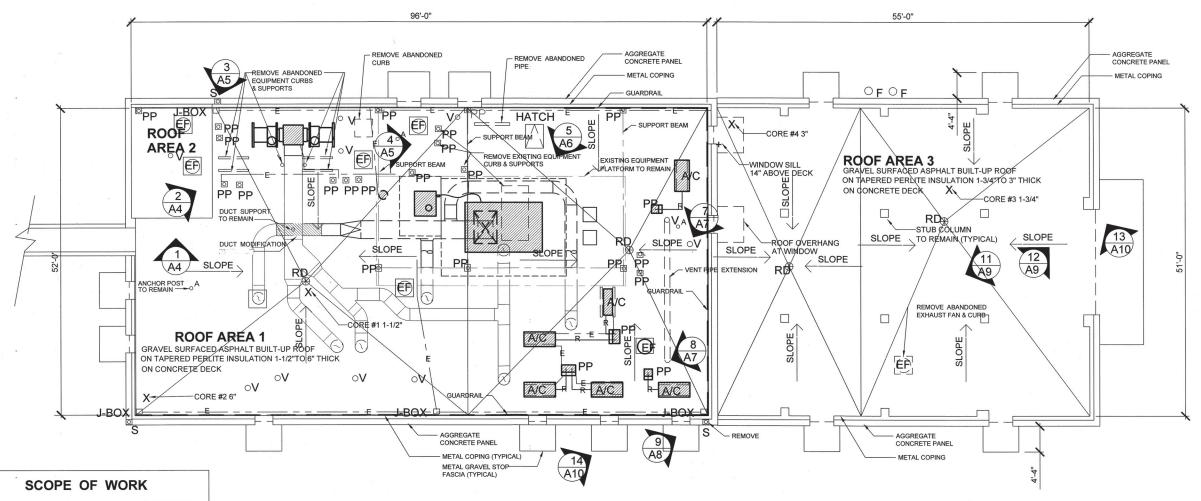
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YNTERGY, L.L.C.

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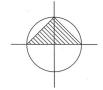
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1. REMOVE BUILT-UP ROOF & ROOF INSULATION TO CONCRETE AT ROOF AREAS #1,2 & 3.

- 2. REPAIR DECK PER UNIT PRICE SCHEDULE.
- 3. INSTALL VAPOR BARRIER TO PRIMED DECK SURFACE.
- 4. REMOVE RUST AND REGALVANIZE RUSTED METAL IN PLACE. REFER TO SECTION 09 91 00.
- 5. REMOVE EXISTING METAL COPINGS & COUNTER FLASHINGS.
 AGGREGATE CÓNCRETE WALL PANEL & STUCCO CANOPY
 FASCIAS TO REMAIN.





NORTH



OKLAHOMA CERTIFICATE OF AUTHORITY #911 EXPIRES 7-30-2021

BIBEC

ROOF REPLACEMENT A.B. JEWELL WATER TREATMENT PLANT

PROJECT NO. SP 18-02

CITY OF TULSA, OKLAHOMA ENGINEERING SERVICES DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:



CYNTERGY, L.L.C.

ROOFING CONSULTANTS

R. EDWARD OWEN RRC, AIA, CCS, CCCA

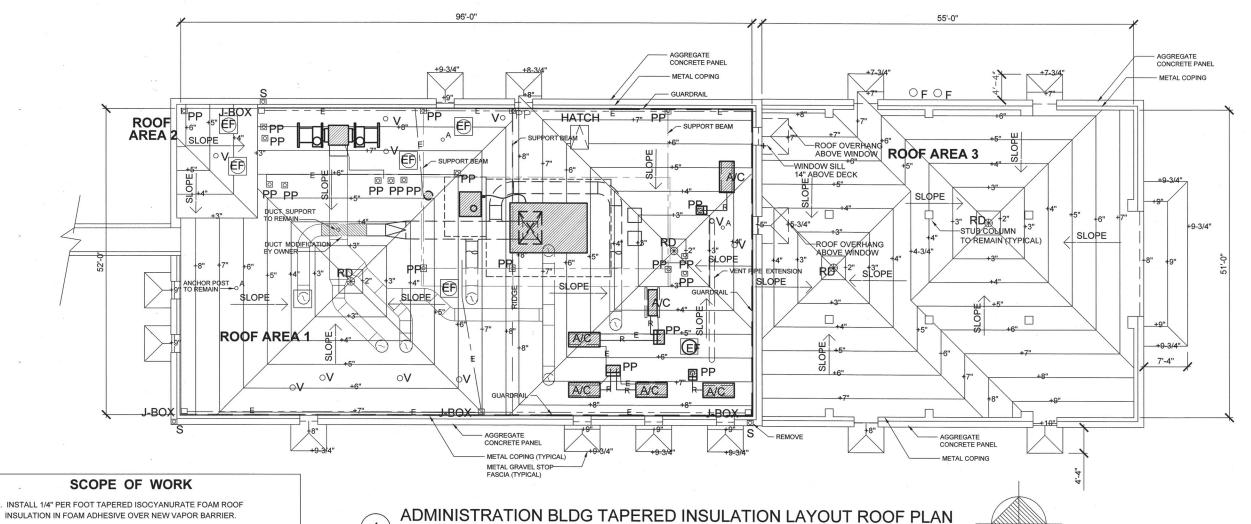
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Roof Area Tabulation

AREA #1 MAIN ROOF 5,063 S.F.
AREA #2 ELEVATOR PENTHOUSE 293 S.F.
AREA #3 LOWER EAST ROOF 3,143 S.F.

TOTAL ROOF AREA

8,499 S.F.



INSULATION IN FOAM ADHESIVE OVER NEW VAPOR BARRIER.

- 2. INSTALL 5/8" DENSDECK PRIME COVER BOARD ADHERED TO TOP SURFACE OF TAPERED INSULATION WITH FOAM ADHESIVE.
- 3. INSTALL 1/2" PER FOOT TAPERED INSULATION AT DRAIN SUMPS.
- 4. INSTALL RETROFIT DRAINS AT EXISTING ROOF DRAINS.

ADMINISTRATION BLDG TAPERED INSULATION LAYOUT ROOF PLAN





ROOF REPLACEMENT A.B. JEWELL WATER TREATMENT PLANT

PROJECT NO. SP 18-02

CITY OF TULSA, OKLAHOMA ENGINEERING SERVICES DEPARTMENT

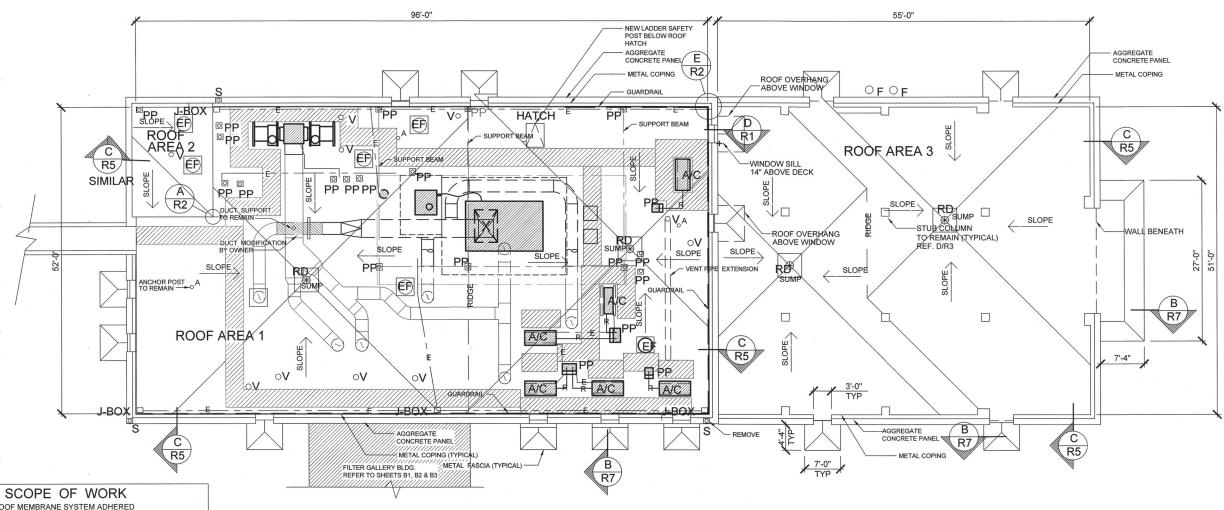


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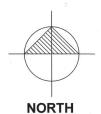
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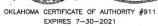
INSTALL TPO ROOF MEMBRANE SYSTEM ADHERED WITH FOAM ADHESIVE OVER COVER BOARD.

- 2. INSTALL PREFINISHED METAL COPINGS AT PARAPET WALLS.
- INSTALL PREFINISHED ALUMINUM FASCIAS AT EAVES OF WINDOW OVERHANGS.
- 4. INSTALL STAINLESS STEEL COUNTER FLASHINGS AT OFFSET WALLS & EQUIPMENT CURBS.
- 5. INSTALL PIPE & CONDUIT SUPPORTS PER SECTION 07 71 10 AT 10' O.C.
- 6. INSTALL WALK PADS.
- 7. INSTALL HATCH LADDER SAFETY POST SYSTEM REF SPEC SECTION 07 72 00, UNLESS CITY DECIDES THIS ACCESS IS NO LONGER REQUIRED TO BE OPERATIONAL.

ADMINISTRATION BLDG. NEW ROOF PLAN







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ROOF REPLACEMENT A.B. JEWELL WATER TREATMENT PLANT

PROJECT NO. SP 18-02

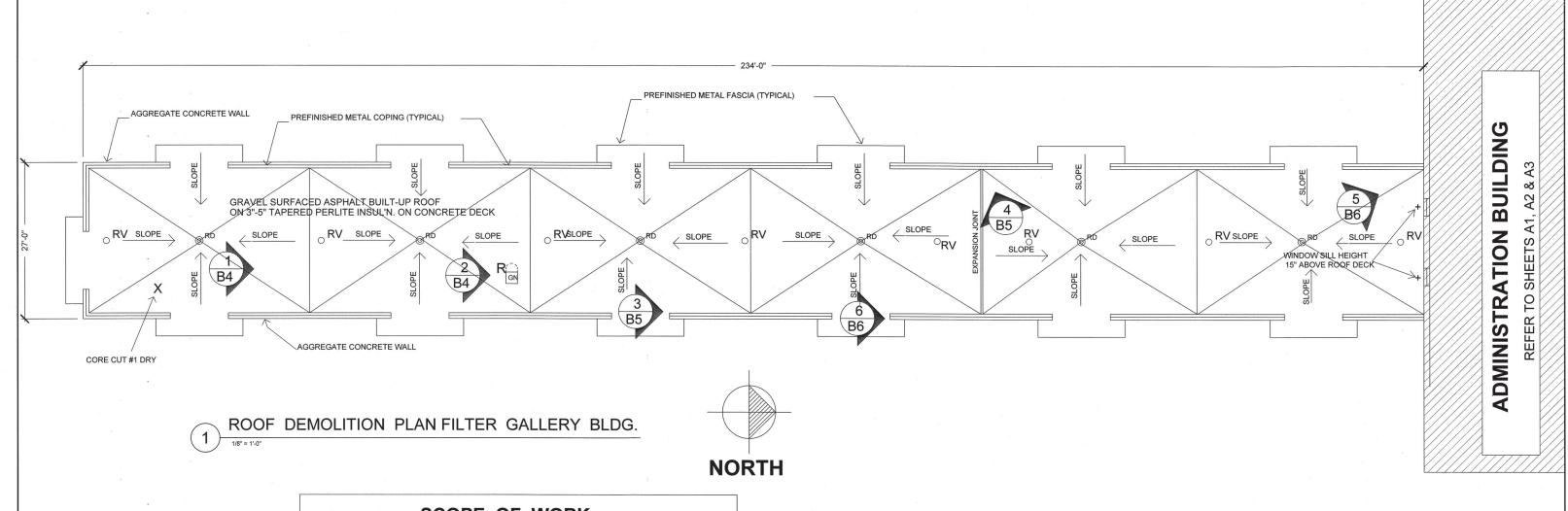
CITY OF TULSA, OKLAHOMA ENGINEERING SERVICES DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:



NTERGY, L.L.C.

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SCOPE OF WORK

- 1. REMOVE BUILT-UP ROOF & ROOF INSULATION TO DECK.
- 2. REPAIR DECK PER UNIT PRICE SCHEDULE.
- 3. INSTALL VAPOR BARRIER TO PRIMED DECK SURFACE.
- 4. REMOVE RUST AND REGALVANIZE METAL IN PLACE. REFER TO SECTION 09 91 00.
- REMOVE EXISTING METAL COPINGS & FASCIAS. AGGREGATE CONCRETE WALL PANEL & STUCCO CANOPY FASCIAS TO REMAIN.

Roof Area Tabulation

TOTAL ROOF AREA 6,564 S.F.





OKLAHOMA CERTIFICATE OF AUTHORITY #911 EXPIRES 7-30-2021

> ROOF REPLACEMENT A.B. JEWELL WATER TREATMENT PLANT

PROJECT NO. SP 18-02

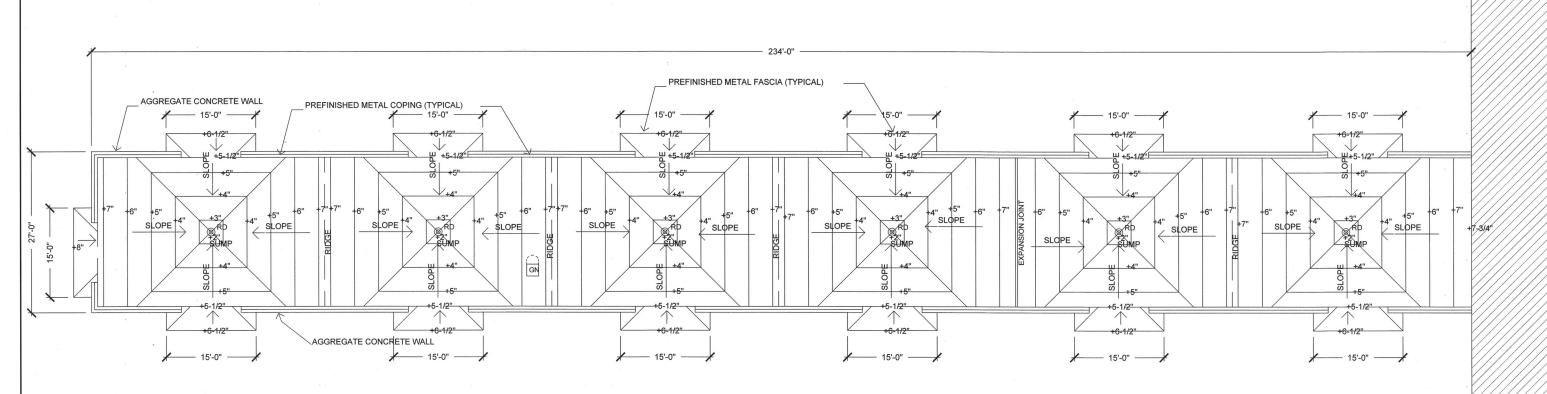
CITY OF TULSA, OKLAHOMA ENGINEERING SERVICES DEPARTMENT

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SCOPE OF WORK

- 1. INSTALL 1/4" PER FOOT TAPERED ISOCYANURATE FOAM ROOF INSULATION IN FOAM ADHESIVE OVER NEW VAPOR BARRIER.
- 2. INSTALL 5/8" DENSDECK PRIME COVER BOARD ADHERED TO TAPERED INSULATION WITH FOAM ADHESIVE.
- 3. INSTALL 1/2" PER FOOT TAPERED INSULATION DRAIN SUMPS.
- 4. INSTALL RETROFIT DRAINS AT EXISTING ROOF DRAINS.









DMINISTRATION BUILDING

REFER TO SHEETS A1, A2 & A3

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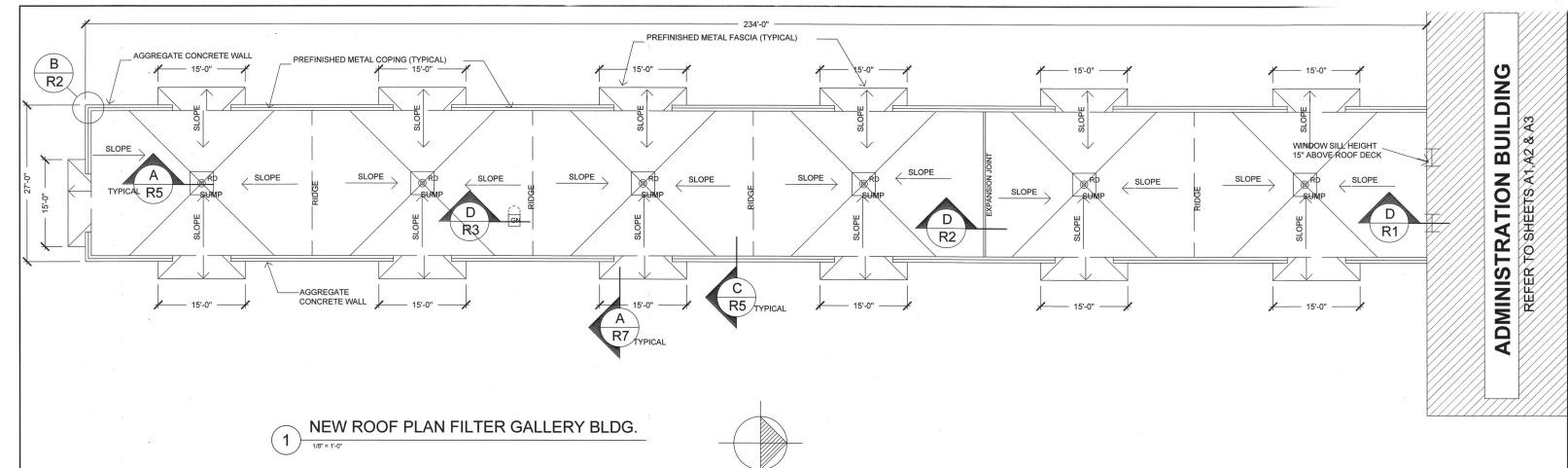
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SCOPE OF WORK

- 1. INSTALL TPO ROOF FULLY ADHERED IN FOAM ADHESIVE OVER NEW . COVER BOARD.
- 2. INSTALL NEW STAINLESS STEEL COUNTER FLASHINGS & PREFINISHED ALUMINUM FASCIAS & COPINGS.
- 3. INSTALL NEW EXPANSION JOINT.



NORTH





OKLAHOMA CERTIFICATE OF AUTHORITY #911 EXPIRES 7-30-2021

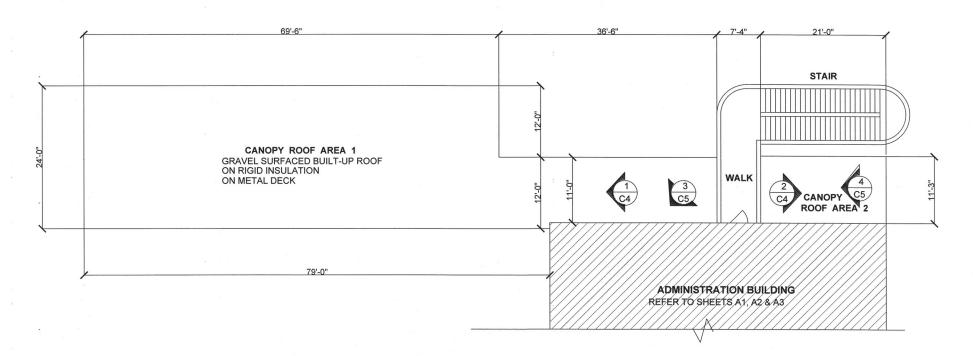
> ROOF REPLACEMENT A.B. JEWELL WATER TREATMENT PLANT

PROJECT NO. SP 18-02

CITY OF TULSA, OKLAHOMA ENGINEERING SERVICES DEPARTMENT

NTERGY, L.L.C.

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CANOPY ROOF DEMOLITION PLAN (ALTERNATE #1)



NORTH

Scope of Work

- REMOVE BUILT-UP ROOF AND EXISTING ROOF INSULATION TO DECK AT CANOPY ROOF AREAS #1 & #2.
- 2. REPAIR DAMAGED ROOF DECK IF FOUND PER UNIT PRICE SCHEDULE.
- 3. REMOVE EXISTING FASCIA DRIP EDGE, SCUPPERS & METAL COUNTER FLASHINGS AT OFFSET WALLS.

Roof Area Tabulation

ROOF AREA #1 ROOF AREA #2

2,087 S.F.

A #2 236 S.F.

TOTAL ROOF AREA 2,323 S.F.



OKLAHOMA CERTIFICATE OF AUTHORITY #911
EXPIRES 7-30-2021

ROOF REPLACEMENT A.B. JEWELL WATER TREATMENT PLANT

PROJECT NO. SP 18-02

CITY OF TULSA, OKLAHOMA ENGINEERING SERVICES DÉPARTMENT

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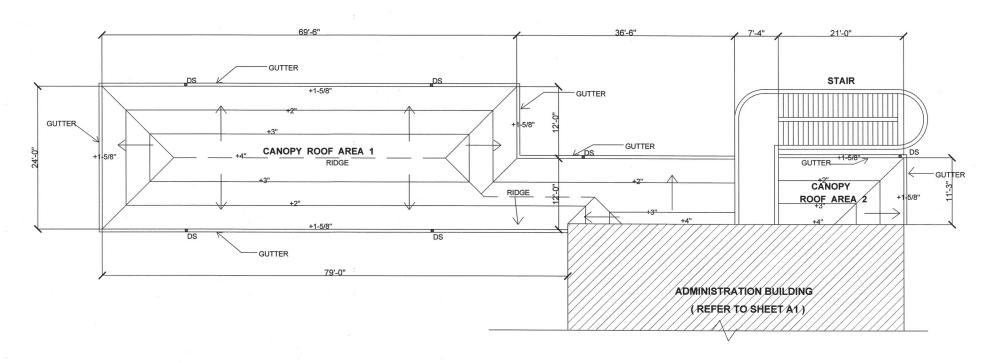
CYNTERGY, L.L.C.

ROOFING CONSULTANTS:

R. EDWARD OWEN RRC, AIA, CCS, CCCA

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Scope of Work

INSTALL 1/4" PER FOOT TAPERED ISOCYANURATE
 ROOF INSULATION MECHANICALLY FASTENED TO DECK.

2. INSTALL 6"x6" GUTTER AT PERIMETER OF ROOF.

CANOPY ROOF TAPERED INSULATION LAYOUT PLAN (ALTERNATE #1)







OKLAHOMA CERTIFICATE OF AUTHORITY #911 EXPIRES 7-30-2021

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CITY OF TULSA, OKLAHOMA ENGINEERING SERVICES DEPARTMENT

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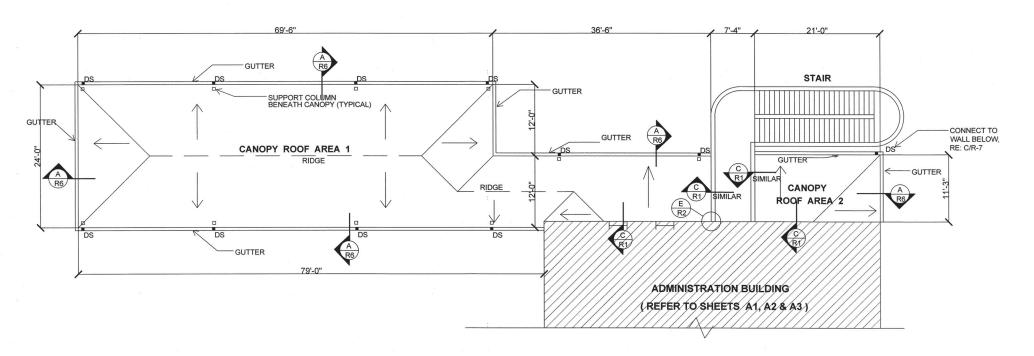


YNTERGY, L.L.C.

ROOFING CONSULTAN

R. EDWARD OWEN
RRC, AIA, CCS, CCCA

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Scope of Work

- 1. INSTALL TPO ROOF MEMBRANE SYSTEM ADHERED WITH FOAM
- 2. INSTALL PREFINISHED METAL GUTTERS & DOWN SPOUTS AT EAVES.
- 3. INSTALL STAINLESS STEEL COUNTER FLASHINGS AT OFFSET WALLS.





OKLAHOMA CERTIFICATE OF AUTHORITY #911 EXPIRES 7-30-2021

> ROOF REPLACEMENT A.B. JEWELL WATER TREATMENT PLANT

PROJECT NO. SP 18-02

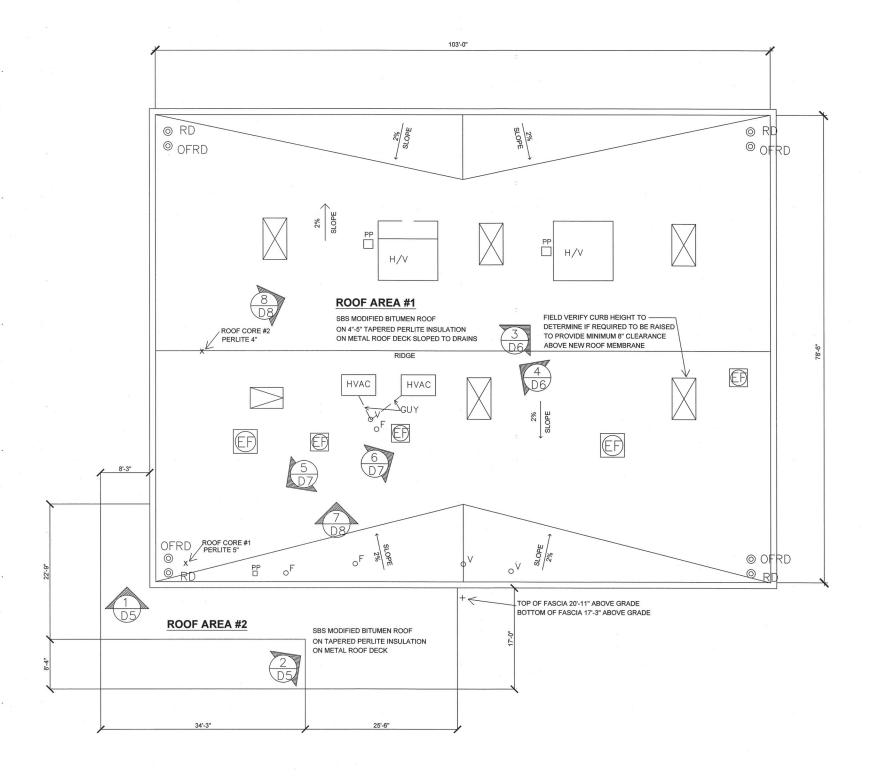
CITY OF TULSA, OKLAHOMA ENGINEERING SERVICES DEPARTMENT

PLANS AND ESTIMATES PREPARED BY



CYNTERGY, L.L.C.

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Scope of Work

- REMOVE EXISTING MODIFIED BITUMEN ROOF AND ROOF INSULATION TO ROOF DECK AT ROOF AREA #1 & 2.
- 2. REPAIR DAMAGED DECK IF FOUND PER UNIT PRICE SCHEDULE.
- 3. INSTALL VAPOR BARRIER ON DECK AT ROOF AREA #1.
- 4. REMOVE STUCCO FASCIA & SOFFIT AT ROOF AREA #2.
- 5. REMOVE DAMAGED FASCIA & SOFFIT STRUCTURE AT ROOF AREA #2.

Roof Area Tabulation

ROOF AREA #1 ROOF AREA #2 8,086 S.F.

816 S.F.

TOTAL ROOF AREA 8,902 S.F.





OKLAHOMA CERTIFICATE OF AUTHORITY #911 EXPIRES 7-30-2021

> ROOF REPLACEMENT A.B. JEWELL WATER TREATMENT PLANT

PROJECT NO. SP 18-02

CITY OF TULSA, OKLAHOMA ENGINEERING SERVICES DEPARTMENT

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YNTERGY, L.L.C.

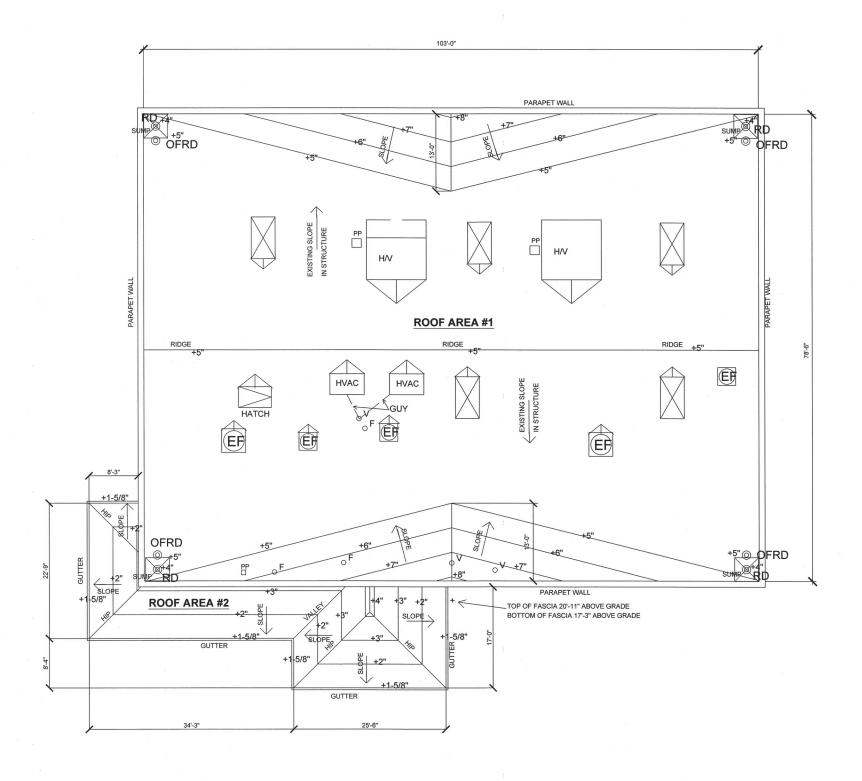
OFING CONSULTANTS

R. EDWARD OWEN RRC, AIA, CCS, CCCA

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SLUDGE DEWATERING FACILITY DEMOLITION ROOF PLAN





SLUDGE DEWATERING FACILITY TAPERED INSULATION LAYOUT PLAN 1/8"=1"-0"



Scope of Work

- INSTALL (2) LAYERS 2-1/4" ISOCYANURATE FOAM ROOF INSULATION MECHANICALLY FASTENED TO ROOF DECK AT ROOF AREA #1.
- 2. INSTALL 1/4" PER FOOT TAPERED ISOCYANURATE FOAM ROOF INSULATION CRICKETS AT ROOF AREA #1.
- 3. INSTALL 1/4" PER FOOT TAPERED ISOCYANURATE FOAM ROOF INSULATION AT ROOF AREA #2.
- 4. INSTALL RETROFIT DRAINS AT EXISTING ROOF DRAINS & OVERFLOW DRAINS AT ROOF AREA #1.
- 5. INSTALL 1/2" PER FOOT TAPERED ISOCYANURATE FOAM ROOF INSULATION AT 4' SQUARE DRAIN SUMPS AT ROOF AREA #1.
- 6. INSTALL 5/8" DENS DECK PRIME COVER BOARD ADHERED IN FOAM ADHESIVE.



OKLAHOMA CERTIFICATE OF AUTHORITY #911 EXPIRES 7-30-2021

> ROOF REPLACEMENT A.B. JEWELL WATER TREATMENT PLANT

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CITY OF TULSA, OKLAHOMA ENGINEERING SERVICES DEPARTMENT

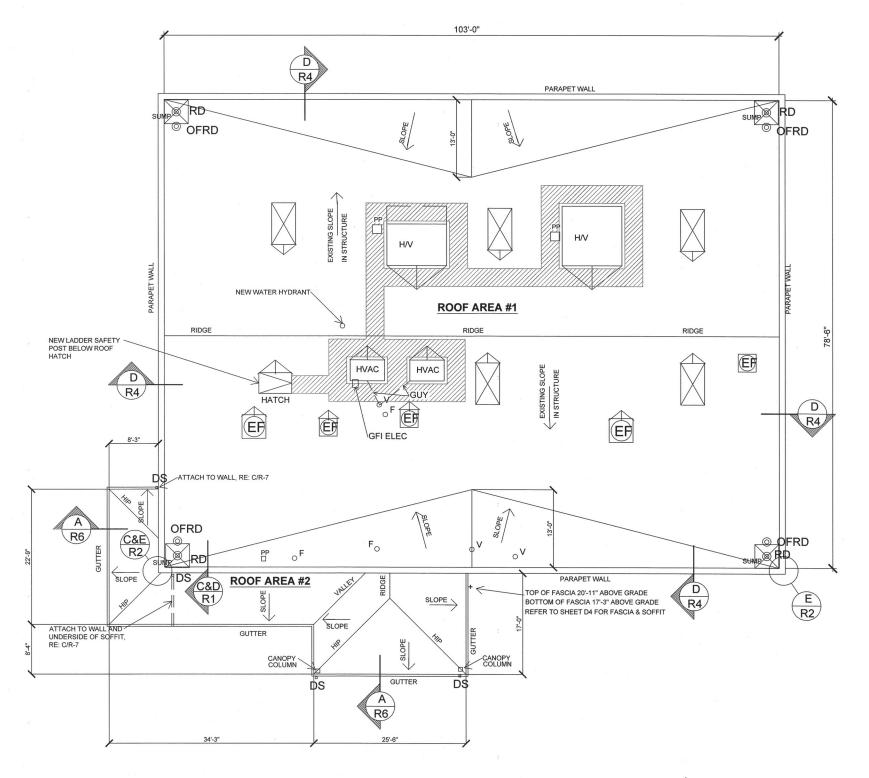
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CYNTERGY, L.L.C.

ROOFING CONSULTANTS

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SLUDGE DEWATERING FACILITY NEW ROOF PLAN

1/8" = 1'-0"



Scope of Work

- INSTALL TPO ROOF FULLY ADHERED IN FOAM ADHESIVE OVER NEW COVER BOARD AT ROOF AREAS #1 & 2.
- 2. INSTALL NEW STAINLESS STEEL COUNTER FLASHINGS.
- 3. INSTALL NEW PREFINISHED ALUMINUM COPINGS & TPO COATED DRIP EDGE.
- 4. INSTALL NEW 6"X6" PREFINISHED ALUMINUM GUTTER & 4"X4" ALUMINUM DOWN SPOUTS AT ROOF AREA #2.
- 5. INSTALL NEW PLUMBING VENT FLASHING BOOTS & FLUE STACKS, WEATHER CAPS & FLASHING COLLARS.
- 6. INSTALL TPO WALK PAD.
- INSTALL NEW WATER HYDRANT. LOCATE WATER HYDRANT OVER NEAREST WATER SOURCE INSIDE BLDG.
- 8. INSTALL WEATHERPROOF GFI ELEC OUTLET ON SIDE OF HVAC UNIT.



OKLAHOMA CERTIFICATE OF AUTHORITY #911 EXPIRES 7-30-2021

> ROOF REPLACEMENT A.B. JEWELL WATER TREATMENT PLANT

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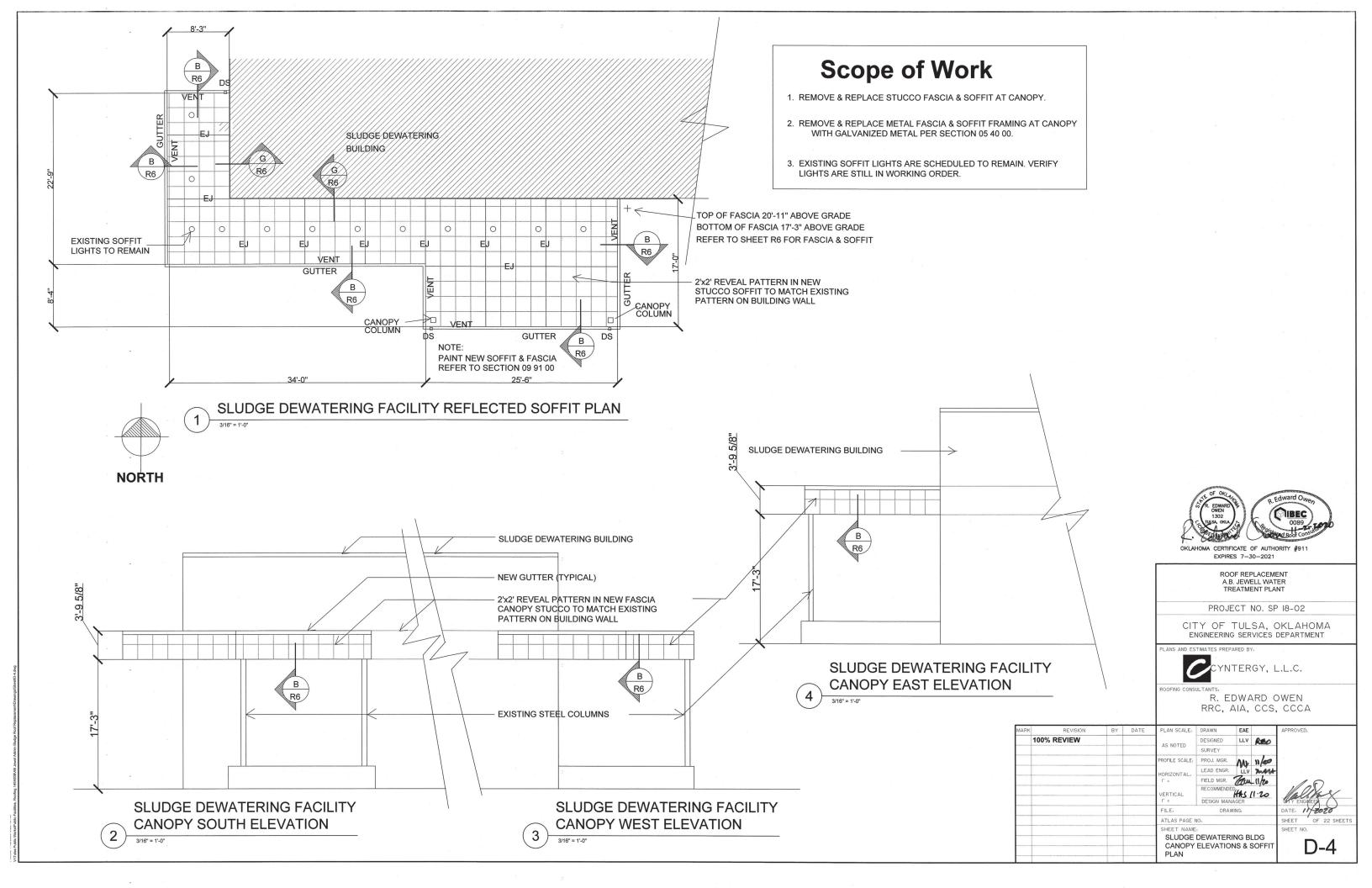
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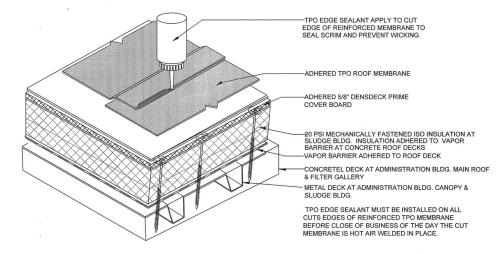
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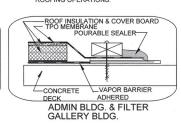




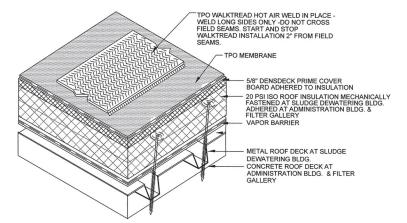
2" X 4" SECURE 24" O.C. -TO DECK.

NIGHT SEAL INSTALLATION INSTRUCTIONS FOR USE AT THE END OF

- 1. EXTEND THE DECK MEMBRANE 12" PAST THE EDGE OF THE NEW
- 2. CLEAN THE SUBSTRATE AT THE NIGHT SEAL LOCATION TO REMOVE ANY DIRT AND DEBRIS. THE SEAL YOU ACHIEVE CAN ONLY BE AS GOOD AS YOUR CLEANING
- APPLY PRIMER TO THE LAST 2" OF THE TOP OF THE DECK SHEET AND THE LAST 5" OF THE BOTTOM OF THE DECK SHEET AND ALLOW TO FLASH OFF.
- 4 SET THE LAST 5" OF DECK MEMBRANE INTO A 5" WIDE BEAD OF POURABLE SEALER. THE MEMBRANE SHOULD BE 1" BACK FROM THE EDGE OF THE POURABLE SEALER IN ORDER TO ALLOW FOR THE MEMBRANE EDGE TO BE ENVELOPED INTO THE SEALER.
- 5 INSTALL A 2" X 4" 1" BACK FROM THE MEMBRANE EDGE AND SECURE TO THE DECK 24" O.C. TO COMPRESS THE MEMBRANE INTO THE POURABLE SEALER.
- 6. TROWEL POURABLE SEALER OVER THE EXPOSED 1" OF MEMBRANE TO ENVELOPE MEMBRANE EDGE.
- UPON RETURN TO WORK REMOVE THE 2" X 4" AND CUT THE LAST 6" OFF THE DECK SHEET AND DISCARD. THEN PROCEED WITH ROOFING OPERATIONS.



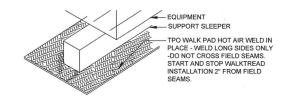




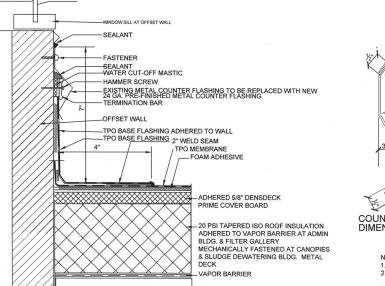
INSULATION OF WELDABLE WALK TREAD AND A/C **SLEEPER PROTECTION**

NOT TO SCALE

NOT TO SCALE

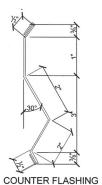






CONCRETE DECK AT ADMIN. BLDG. & FILTER GALLERY BLDG.

TERM BAR AND SEALANT AT COUNTER FLASHING



- APPLY ON HARD SMOOTH SURFACE ONLY; NOT FOR USE ON WOOD. WATER CUT-OFF MASTIC MUST BE HELD UNDER CONSTANT COMPRESSION.
 DO NOT WRAP COMPRESSION TERMINATION AROUND CORNERS.
- ALLOW 1/4" MINIMUM TO 1/2" MAXIMUM SPACING BETWEEN CONSECUTIVE
- LENGTHS OF TERMINATION BAR.

 5. TERMINATION BAR MUST BE 1/8" x 1" MINIMUM.





OKLAHOMA CERTIFICATE OF AUTHORITY #911 EXPIRES 7-30-2021

> ROOF REPLACEMENT A.B. JEWELL WATER TREATMENT PLANT

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CITY OF TULSA, OKLAHOMA ENGINEERING SERVICES DEPARTMENT



NTERGY, L.L.C.

R. EDWARD OWEN RRC, AIA, CCS, CCCA

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TPO ROOF DETAILS

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POURABLE SEALER

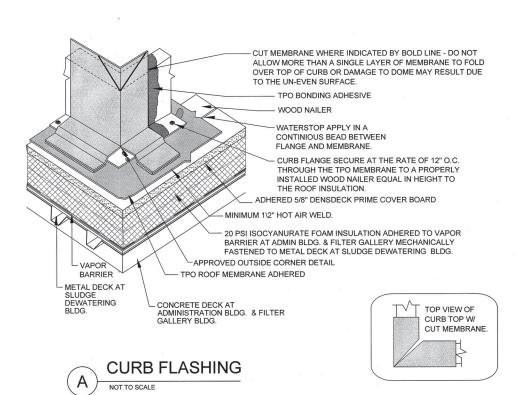
METAL ROOF DECK-

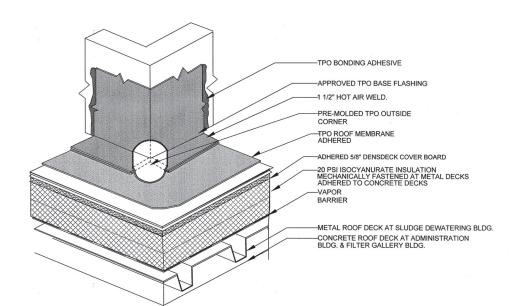
POURABLE SEALER

SLUDGE DEWATERING

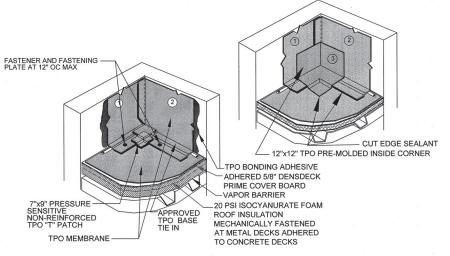
VAPOR BARRIER
ADHERED

EXISTING ROOF MEMBRANE -

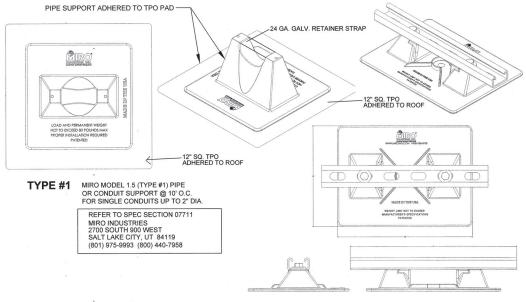








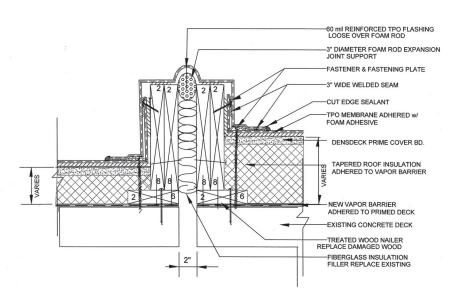




PIPE SUPPORT

NOT TO SCALE

TYPE #2 MIRO MODEL 2.5 CS -2 (TYPE #2) PIPE OR CONDUIT SUPPORT @ 10' O.C. FOR MULTIPLE CONDUITS UP TO 3" DIA.



EXPANSION JOINT IN FIELD OF ROOF AT FILTER GALLERY NOT TO SCALE

OKLAHOMA CERTIFICATE OF AUTHORITY #911 EXPIRES 7-30-2021

> ROOF REPLACEMENT A.B. JEWELL WATER

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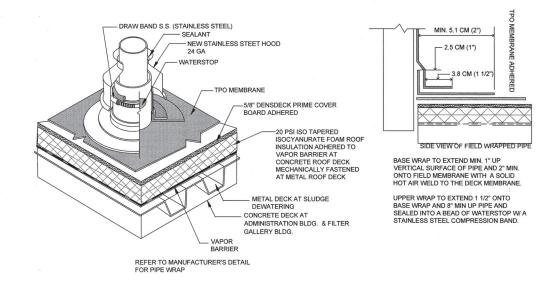
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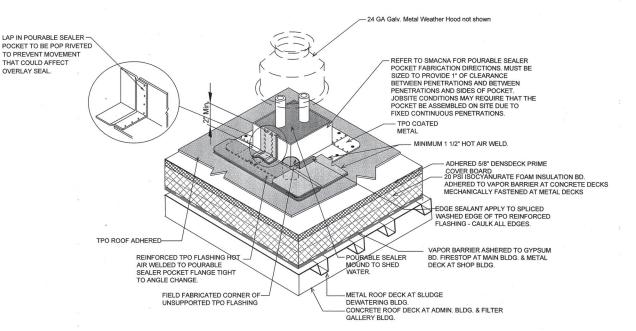


NTERGY, L.L.C.

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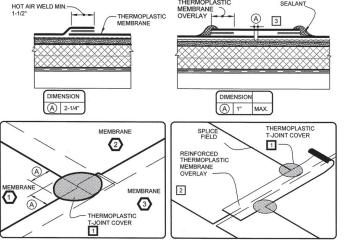




POURABLE SEALER POCKET FORMED WITH TPO COATED METAL

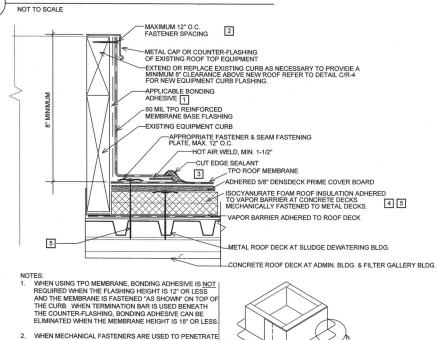
MEMBRANE SPLICE

END LAP SPLICE



- 1. WHEN USING 80-MIL THERMOPLASTIC FLEECEBACK MEMBRANE, APPLY A 4-1/2" DIAMETER THERMOPLASTIC "T-JOINT" COVER AT ALL FIELD SPLICE INTERSECTIONS.
- 2. APPROXIMATELY 1/8" DIAMETER BEAD OF CUT-EDGE SEALANT IS REQUIRED ON CUT EDGES OF REINFORCED TPO MEMBRANE.
- THIS SYMBOL REFERS TO THE SHEET NUMBER WHERE MORE THAN ONE SHEET INTERSECT.

THERMOPLASTIC FLEECEBACK MEMBRANE SPLICE



USE ONE CONTINUOUS _____ SHEET OF REINFORCED THERMOPLASTIC MEMBRANE

 WHEN MECHANICAL FASTENERS ARE USED TO PENETRATE THE METAL COUNTER-FLASHING, USE EPDM WASHERS, APPLY WATER CUT-OFF MASTIC UNDER THE COUNTER-FLASHING OR CAULK THE FASTENER HEADS.

3. APPROXIMATELY 1/8" DIAMETER BEAD OF CUT-EDGE SEALANT IS REQUIRED ON CUT EDGES OF REINFORCED TPO MEMBRANE.

- REFER TO MANUFACTURER'S SPECIFICATIONS FOR ACCEPTABLE FASTENER AND PLATE.
- 5. MECHANICAL SECUREMENT MAY BE INSTALLED INTO THE VERTICAL SUBSTRATE.
- WHEN USING 60 OR 80 MILTHICK CURB FLASHING, THE INTERSECTIONS BETWEEN SPLICES MUST BE OVERLAID WITH A THERMOPLASTIC "T-JOINT" COVER.

EXISTING EQUIPMENT CURB





OKLAHOMA CERTIFICATE OF AUTHORITY #911 EXPIRES 7-30-2021

> ROOF REPLACEMENT A.B. JEWELL WATER TREATMENT PLANT

PROJECT NO. SP 18-02

CITY OF TULSA, OKLAHOMA ENGINEERING SERVICES DEPARTMENT



NTERGY, L.L.C.

R. EDWARD OWEN RRC, AIA, CCS, CCCA

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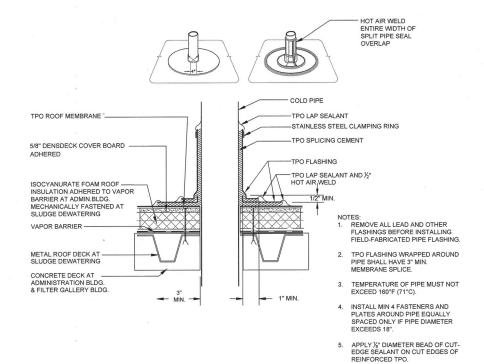
EXTENSION FLASHING

NOT TO SCALE

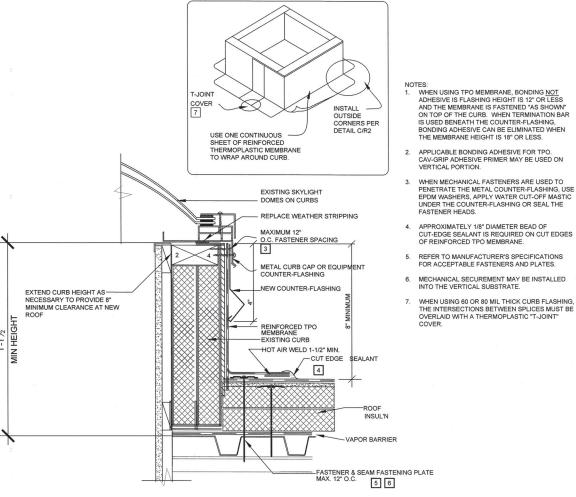
NOT TO SCALE

A PRE-FABRICATED PIPE BOOT

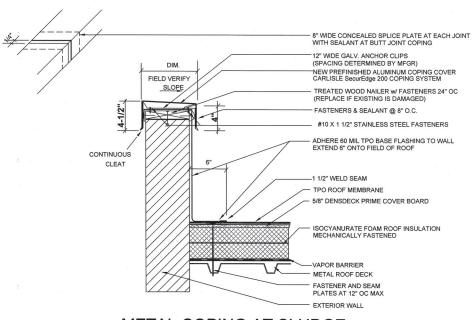
ALTERNATIVE - MEMBRANE SECUREMENT MAY ALSO BE INSTALLED CLOSE TO THE PENETRATION AND FLASHED WITH THE PIPE BOOT AS SHOWN HERE.







CURB FLASHING AT SKYLIGHT NOT TO SCALE



METAL COPING AT SLUDGE
DEWATERING BLDG PARAPET
NOT TO SCALE



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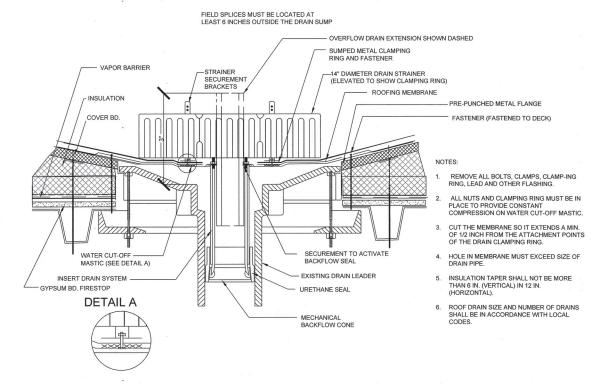
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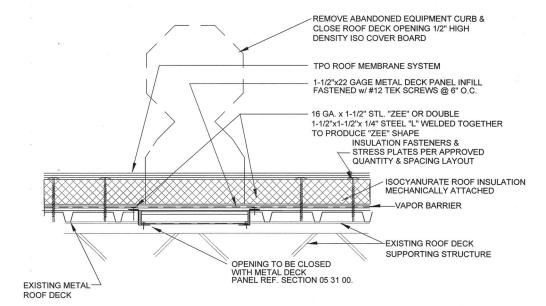
CYNTERGY, L.L.C.

OFING CONSULTANTS:

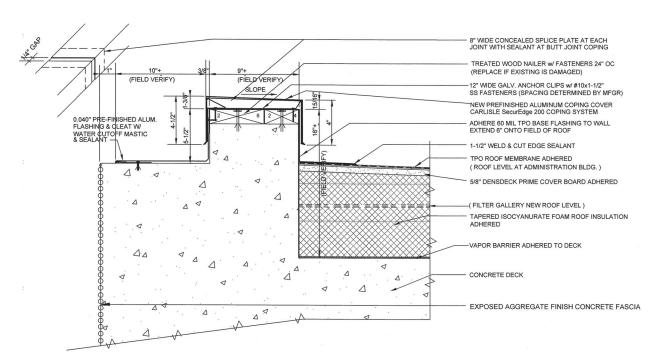
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METAL COPING AT ADMIN. BLDG. (FILTER GALLERY BLDG. SIMILAR)

NOT TO SCALE





OKLAHOMA CERTIFICATE OF AUTHORITY #911
EXPIRES 7-30-2021

ROOF REPLACEMENT A.B. JEWELL WATER TREATMENT PLANT

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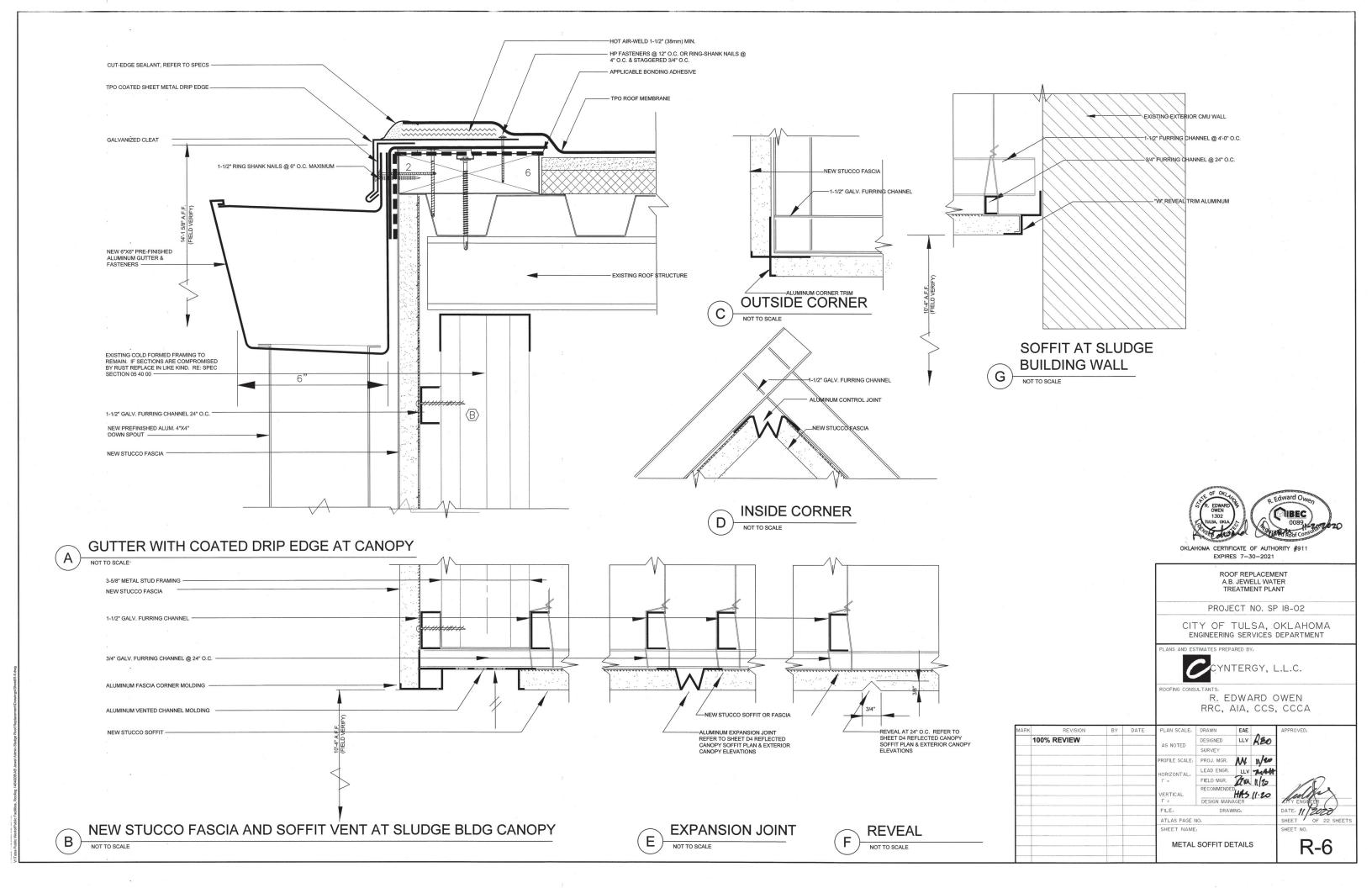
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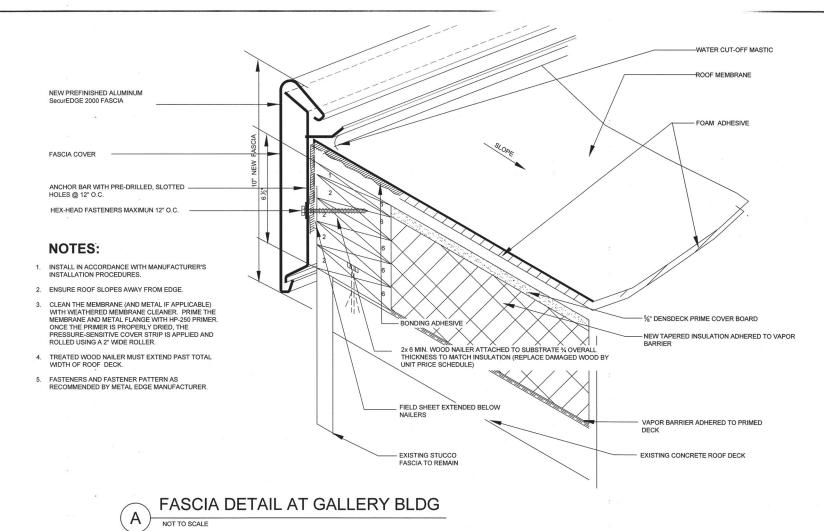
ANS AND ESTIMATES PREPARED 6

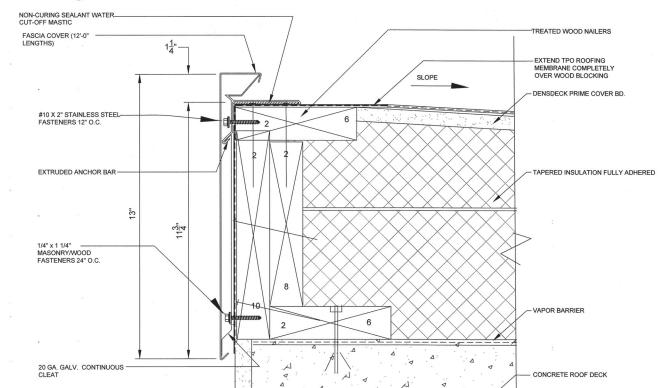


ROOFING CONSULTANTS:

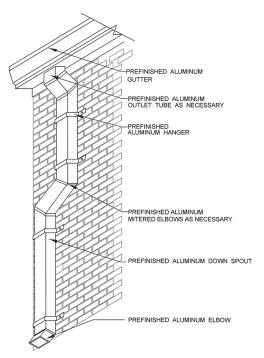
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FASCIA DETAIL AT ADMINISTRATION BLDG



DOWN SPOUT TRANSITIONS



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ANCHOR-TITE EXTENDED MODIFIED FASCIA - 13" NOTE: HOLES PREPUNCHED 1 1/4" DOWN, CENTERED

NOT TO SCALE