The addendum is hereby made part of the Contract Documents to the same extent as though it were originally included therein. Refer to "Bid Form" for acknowledgment of addenda.

All Contractors, Subcontractors and suppliers are reminded that they shall be familiar with all addenda items (as well as all parts of the construction documents) so as to understand the extent of their work and its interrelation with other trades.

To all bidders for furnishing all labor and materials necessary for the following contract.

MESA HEIGHTS TEACHERAGE SUBDIVISION CENTRAL CONSOLIDATED SCHOOL DISTRICT

GENERAL:

ITEM AD1-G1:

Section RFP - Request for Proposal

A mandatory pre-proposal conference was held on January 19, 2021. The list of conference attendees is attached to this addendum.

ITEM AD1-G2:

Section RFP – Request for Proposal

A mandatory pre-proposal conference was held on January 19, 2021. The conference agenda is attached to this addendum.

ITEM AD1-G3:

Section 00 73 00 Supplemental Conditions

Proposers are reminded this project is within jurisdiction of the Navajo Nation, and as such falls under the authority of Office of Navajo Labor Relations and Office of the Navajo Tax Commission. Navajo Preference in Employment Act and Navajo Nation Sales Tax will be in effect. Please contact the Tribal Offices for additional information.

CIVIL ITEMS

DRAWINGS:

ITEM AD1-C1:

Sheet C101A – Phase I Site Grading Plan Base Bid

- 1. Revise spot elevations
- 2. Add fencing
- 3. Correct typo in note 3
- 4. Add note 5

ITEM AD1-C2:

Sheet C103 – Site Sewer Utility Plan Base Bid

- 1. Add keyed note 8
- 2. Revise sewer line layout in Mesa Court cul-de-sac

ITEM AD1-C3:

Add Traffic Weight Pipe Guard Rail Detail

DRAWINGS:

ITEM AD1-S1:

Sheet S101 - 3 Bedroom Units Plans Unit Price A

- 1. Keynote 9 added.
- 2. Plan A1, keynote added at porch framing.

ITEM AD1-S2:

Sheet S102 - 2 Bedroom Units Plans Unit Price B

- 3. Keynote 9 added.
- 4. Plan A1, keynote added at porch framing.

ITEM AD1-S3:

Sheet S103 - 2 Bedroom Units (Mirrored) Plans Unit Price C

- 1. Keynote 9 added.
- 2. Plan A1, keynote added at porch framing.

ITEM AD1-S4: Sheet S301 - Foundation Sections Detail D1 added.

ITEM AD1-S5: Sheet S311 - Framing Sections and Details Detail E1 added.

ARCHITECTURAL ITEMS

PROJECT MANUAL:

ITEM AD1-A1: Section RFP Page 20, paragraph III.B

1. Delete the text "No Electronic Media Allowed"

2. Revise to read:

"In addition to the Original Technical Proposal and Price Proposal submittal, Offerors shall provide one electronic copy of the proposals in pdf format for the Evaluation Committee. The District may allow the copies of the Subcontractor Qualifications Statements to be submitted at a later time to ensure timely delivery of the proposal response.

Note: Offerors may be afforded 24 hours to submit the additional copies of the Subcontractors Qualifications Statements."

DRAWINGS:

ITEM AD1-A2:

Add detail ADD-1.1 and ADD-1.2 for chain-link enclosure at proposed NTUA gas master meter enclosure.

DRAWINGS:

Item AD1-P1: Drawing PS101

- 1. Gas Load Information, Change requested service pressure to "10 PSI".
- 2. Keyed note 22.53, add the following: Coordinate location of NTUA gas meter to accommodate chain link fence enclosure and pipe guard rail details. Refer to architectural and civil.

Item AD1-P2: Drawing P601 Plumbing Schedule, Revise PR inlet pressure to "10#".

MECHANICAL ITEMS

DRAWINGS:

Item AD1-M1: Drawings M101, M102, M103, M601 Furnace outside air ducts have been rerouted on all units to allow for M/D motorized damper to be accessible in furnace closet. New routing can be seen on floor plans and in section views.

Item AD1-M2: Drawing M101, M102, M103 All supply grilles into bathrooms have been changed from wall mounted to ceiling mounted. Supply grilles remain the same size and type.

ELECTRICAL ITEMS

DRAWINGS:

Item AD1-E1: Drawing E601 Add Ufer ground to one-line diagram.

END OF ADDENDA NO. 1

PRE-PROPOSAL CONFERENCE

HELD VIA GO-TO-MEETING

Architect Project #5417.02 PSFA Project # 020-003 Central CCSD Project # 2020-841-110

AGENDA

January 19, 2021 1:30 PM

1. INTRODUCTIONS

A. Attendees please sign in

2. PROJECT OVERVIEW

- A. Scope of Work
 - I. Base bid:
 - II. Site work including grading and drainage, roads, and utilities extension to support phase I construction of up to nine (9) single-family Homes. Landscaping for each of nine (9) homes. Utilities extension sized for eventual construction of thirty-three (33) home subdivision.
- B. Summary of RFP
 - I. Deadline for Receipt of Proposal: Thursday, February 04, 2021 at 2:00 PM local time
 - II. Location: CCSD Central Office
 - a. Operations Department
 - b. 64 Old Shiprock HS Road, Shiprock, NM 87420
 - c. 505-598-4561
 - d. Late Proposals will not be accepted. It is the responsibility of the Offeror to ensure that proposals are delivered on time
- C. Proposal Documents
 - I. Available at ARI Albuquerque
 - II. \$125.00 refundable deposit
- D. Requirements for Submission of Proposals
 - I. Request for Proposals
 - a. Intent to Respond due Today, Tuesday, January 19, 2021 by 5:00 PM local time
 - b. Associated Prime and Sub-Contractor Questionnaires

- II. 00 10 00 Instructions to Offerors
- III. Proposal Form 00 41 13 and Supplements
- E. Questions Clarifications Addenda

	I.	Last Day for Prior Approvals:	Monday, January 25, 2021
		a. Prior Approval Request Form 01 63 00	in project manual
	II.	Last Day for Clarifications:	Wednesday, January 27, 2021
	III.	Release of Final Addendum:	Friday, January 29, 2021
F.	Sch	edule	
	I.	Proposals Due:	February 04, 2021 at 2:00 PM
	II.	Approval of low-bid Contractor (approx):	February 16, 2021
	III.	Notice to Proceed (approximate):	March 18, 2021
	117	Substantial Completion.	December 2021
	1V.	Substantial Completion:	December 2021

- G. Bid Segregation:
 - I. Base Bid: Site work including grading and drainage, roads, and utilities extension to support phase I construction of up to nine (9) single-family homes. Landscaping for each of nine (9) homes. Utilities extension sized for eventual construction of thirty-three (33) home subdivision.
 - II. Unit Price A: Construction of each 3-Bedroom single family home on site prepared in base bid.
 - III. Unit Price B: Construction of each 2-Bedroom single family home on site prepared in base bid.
 - IV. Unit Price C: Construction of each 2-Bedroom (mirrored) single family home on site prepared in base bid.
- H. Alternates (01 23 00): None
- I. Construction Sequencing and Staging
 - I. 01 10 00 Summary
- 3. CONTRACT PROVISIONS
 - A. DWS Registration Numbers
 - I. Not required to be filled out for subcontractors until after bid but before contract (00 43 36)
 - II. General contractor must have current DOL # and must be indicated on the bid form (00 41 13)
 - B. CIMS (00 72 00 section 4.2.4.3) Not required, no PSFA funding
 - C. Markup on Changes (00 72 00 section 7.2.5)
 - D. Schedule of Values Closeout Line Item (00 72 00 section 9.2.2)
- 4. MISCELLANEOUS ITEMS, QUESTIONS AND COMMENTS

- A. Contractors please submit technical questions in writing to architect's office
- 5. PROJECT SITE TOUR
 - A. Contractors are invited to visit the site at their convenience. Site is located at Mesa Road and N545. The site is on the south side of the road east of Mesa Elementary School

MESA HEIGHTS TEACHERAGE SUBDIVISION – PHASE I

CENTRAL CONSOLIDATED SCHOOL DISTRICT

PRE-BID CONFERENCE

HELD VIA GO-TO-MEETING

Architect Project #5417.02 PSFA Project # O20-003 Central CCSD Project # 2020-841-110

SIGN-IN SHEET

January 19, 2021 Time: 1:30 PM

Name	Representing	Telephone #
Chris van Dyck	Greer Stafford Architecture	505-821-0235
Steve Belcher	Kelly Cable	505-793-3924
Rick Chrisman	Winters Construction	505-320-6181
James Harris	Winters Construction	970-729-2255
Tim Smith	FCI	505-334-7330
Miles Kuchera	Farmington Heating & Metal	505-325-4505
Quin Montoya	Navajo Engineering & Construction Authority	928-209-2028

Jaclyn Broderick	Jaynes Corporation	505-288-1173
Bryan McCarthy	Farmington Heating & Metal	505-325-4505
Calvert Yazzie	Rose Brothers	505-374-5108
Dustin Sullivan	ME&E Engineering	970-385-1570
Summer Kuchera	Farmington Heating & Metal	505-325-4505
Greg Schuma	Echo Electric	505-327-0881
Waynette Danley	Central Consolidated School District	505-598-4561
Sean Brophy	ME&E Engineering	970-385-1570
Jim Osgood	ME&E Engineering	970-385-1570
Doug Bolling	Jaynes Corporation	505-345-8591
John Giddens	Greer Stafford Architecture	505-821-0235
Rick Adair	TRC Construction	505-793-4797
Bob Echols	Cheney-Walters-Echols	505-327-3303
Mark Lujan	Souers Construction	505-250-9335
Chris Rose	Rose Brothers	505-258-1232
Pietre Drayer	Chavez-Grieves Consulting Engineers	505-344-4080
Chris Romero	Chavez-Grieves Consulting Engineers	505-344-4080

Valden Todacheene	Silver Stream Electric	505-634-6527
James Salsbury	Bradbury Stamm Construction	505-765-1200
Jeff Cillesen	B&M Cillessen Construction	505-325-8891
Taylor Miller	Seal-Co	505-870-6661
Lenny Cerami	National Roofing	505-363-8607
Candice Thompson	Central Consolidated School District	505-598-4561
Edward Bradley	National Roofing	505-366-3222
Craig Foutz	Foutz Construction	505-325-4922



6 PROJECT BENCHMARK FOUND 1995 BLM BRASS CAP, EAST QUARTER SECTION 24, T3ON, RI8W N = 2111915.016 (N36°47'57.93927") E = 2474979.567 (W108°40'57.60518") EL = 5082.07 PRIOR TO DISTURBING THIS MONUMENT A NEW WITNESS MONUMENT SHALL BE SET IN AN AREA THAT WILL NOT BE DISTURBED AND THAT LOCATION SHALL BE THE NEW PROJECT BENCHMARK. FINISH FLOOR KEYED NOTES: (A) 3 BEDROOM FINISH FLOOR ELEV = 5078.50 (B)2 BEDROOM MIRRORED FINISH FLOOR ELEV = 5077.00(C)2 BEDROOM FINISH FLOOR ELEV = 5080.50(D)2 BEDROOM MIRRORED FINISH FLOOR ELEV = 5080.50 (E)2 BEDROOM FINISH FLOOR ELEV = 5080.50(F)2 BEDROOM FINISH FLOOR ELEV = 5080.50 (G)2 BEDROOM FINISH FLOOR ELEV = 5075.00 (H)2 BEDROOM FINISH FLOOR ELEV = 5074.30

(i) 2 BEDROOM FINISH FLOOR ELEV = 5073.6

<u>Retaining Wall/Fencing Legend</u>

I.) WALL HEIGHTS ARE FINISH GRADE TO TOP OF WALL. 2.) FENCE HEIGHTS ARE FINISH GRADE TO TOP OF FENCE.

- $\langle 1 \rangle$ 4.0' Chain Link Fence with no slats.
- $\left| \frac{1}{2} \right\rangle$ 6.0' Chain link fence with decorative slats.
- 4 4 $\sqrt{3}$ 6.0' chain link fence with privacy slats.

 $\overline{\langle 4 \rangle}$ CMU SITE WALL.

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- $\left< 5 \right>$ REMOVE EXISTING FENCE AND SALVAGE FOR OWNER.
- DECORATIVE SLATS BY SLAT SOURCE OR EQUAL COLOR BY OWNER.
- * PRIVACY SLATS BY PRIVACY LINK OR EQUAL COLOR BY OWNER.



I. ALL PROPOSED UTILITIES HAVE BEEN REMOVED FROM THIS PLAN FOR CLARITY. SEE SHEETS No. CIO2, CIO3, CIO4 AND CIO5 FOR UTILITY INSTALLATION. 2. SEE SHEET CIO5 FOR ROAD PROFILE DETAILS AND SHEET CIO8 FOR SIDEWALK AND DRIVE PAD CONSTRUCTION DETAIL 4/CIO5. 3. SEE SHEET CIOI FOR NOTES ON DETENTION POND CONSTRUCTION AND TEMPOPARY CUL DE SAC 4. PMASE I SCOPE OF WORK IS BASE BID. 5. EXISTING SCHOOL PORTABLES TO BE REMOVED BY OWNER. 20 IO 0 20

SCALE: I" = 20'

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SEWER UTILITY CONSTRUCTION NOTE: 1.) ALL SEWER LINE CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE LATEST NTUA DETAILS AND SPECIFICATIONS. 2.) PHASE I SCOPE OF WORK IS BASE BID.

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<u>Project benchmark</u>

FOUND 1995 BLM BRASS CAP, EAST QUARTER SECTION 24, T3ON, RI8W N = 2111915.016 (N36°47'57.93927") E = 2474979.567 (WIO8°40'57.60518") EL = 5082.07 PRIOR TO DISTURBING THIS MONUMENT A NEW WITNESS MONUMENT SHALL BE SET IN AN AREA THAT WILL NOT BE DISTURBED AND THAT LOCATION SHALL BE THE NEW PROJECT BENCHMARK.

KEYED SEWER UTILITY NOTES:

INSTALL TWO WAY CLEAN OUT ON 4"¢ SCH40 PVC SEWER SERVICE AT EACH INDIVIDUAL LOT. SEE DETAIL I/CIO7. (TYPICAL)

2 4"Ø SCH40 PVC SEWER SERVICE TO WITHIN 5.0' OF FOUNDATION. INVERT SHALL BE DETERMINED FROM FINISH FLOOR ELEVATION MINUS 3.0'±. CAP AND MARK END DURING INSTALLATION AT EACH INDIVIDUAL LOT. (9 EACH TYPICAL)

(3) INSTALL A 4"Ø SERVICE LINE TAP ON 8"Ø SEWER LINE. SEE DETAIL WWS-I SHEET CIO7. (9 EACH TYPICAL)

(4) OFF SITE SANITARY SEWER. SEE SHEET CIO4 FOR PLAN AND PROFILE.

5)STUB NEW 8"Ø SDR35 SEWER LINE A MINIMUM 10.0' BEYOND PHASE I PAVING AND CAP. MARK WITH 4"x4" POST.

6 SEE SHEET CIO5 FOR SANITARY SEWER PLAN AND PROFILE IN MESA ROAD FOR PHASE I CONSTRUCTION.

7 SEE SHEET CIO5 FOR SANITARY SEWER IN MESA COURT FOR PHASE I CONSTRUCTION.
8 SEWER SERVICE LINES FROM LOTS 3, 4 AND 5 SHALL CONNECT TO SEWER MAIN AT LEAST IO.O' FROM MANHOLE FOR EACH SEWER SERVICE TAP.





















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D4

CHAIN LINK FENCE SPECS FROM NTUA TECHNICAL SPECIFICATIONS FOR MATERIALS AND WORKMANSHIP FOR NATURAL GAS FACILITIES, OCTOBER 2004

GAS ENCLOSURE MUST MEET NTUA SPECS MINIMUM OR SECTION 32 31 13 CHAIN LINK FENCING AND GATES, WHICHEVER IS MORE STRINGENT.

THE INSTALLATION OF FENCING AND GATES SHALL MEET THE MINIMUM REQUIREMENTS OF AMERICAN SOCIETY FOR TESTING & MATERIALS (ASTM) SPECIFICATION. ALL FENCES WILL HAVE VISIBLE WARNING SIGNS LOCATED ON ALL FOUR SIDES INSTALLED BY THE UTILITY.

FOLLOWING MATERIALS ARE TYPICALLY USED:

- CHAIN LINK 72", 9 GAUGE GAW, GALVANIZED (2" MESH), 1.2 OZ. ZINC CHAIN LINK FABRIC
- TOP RAIL 1-5/8" DQ-40 PIPE
- TERMINAL POST 2-7/8" X 8', DQ-40 PIPE. CONCRETE FOOTING: 10" DIAMETER, 24" DEPTH
- LINE POST 1-7/8" X 9', SCHEDULE-40 PIPE. CONCRETE FOOTING: 12" DIAMETER, 36" DEPTH
- GATE POST 2-7/8"X 10', DQ-40 PIPE. CONCRETE FOOTING: 10" DIAMETER, 36" DEPTH
- LATCH POST 2-7/8" X 9', DQ-40 PIPE
- GATE FABRICATED; 72"X 3', 1-7/8" PIPE, .065" TUBE SINGLE SWING GATE
- MALLEABLE IRON-GATE FORK LATCH 1-7/8"X 2-7/8"
- HEAVY POST HINGE 2-7/8"
- HEAVY GATE FRAME HINGE 1-7/8"
- CARRIAGE BOLT WITH NUT 3/8"X 3 ¹/2"
- CARRIAGE BOLT 3/8" X 2-¼"
- REGULAR BRACE BAND 2-7/8"
- REGULAR TENSION BAND 2-7/8"
- PRESSED STEEL RAIL-END 1-5/8
- ALUMINUM TIE WIRE 6 ½" LENGTH, 11 GA
- SMOOTH TENSION WIRE 9 GA., ATTACHED TO BOTTOM OF FENCE FABRIC
- STEEL HOG RING 12.5 GA
- GALVANIZED BARB WIRE 12.5 GA, 2 PT, 3 STRANDS ON TOP
- PRESSED STEEL CORNER BARB WIRE ARM 2-7/8"
- PRESSED STEEL BARB WIRE ARM 1-7/8"X 1-5/8", 45 DEGRE.5
- TENSION BAR 70" X 3/16" X 3/4"
- PRESSED STEEL CAP 2-7/8"
- CARRIAGE BOLT WITH NUT 5/16" X 1-1/4"
- CONCRETE FOR ALL POST FOOTING

GSS ARCHITEGTURE	GREER STAFFORD/SJCF ARCHITECTURE, INC. 1777 LOUBIANA NE, SUITE 206 ALBUQUERQUE, NH 87119-7027 GOOD 207-0209 - FAVOR (2010) GOOD 207-0209 - FAVOR (2010)	MESA HEIGHTS TEACHER CENTRAL CONSOLIDATE	PAGE
	3005 MORTHADAE DA, 301TE F FARMINGTON, NM 87401-2005 (\$101) 328-7478 = FAX: (\$101) 328-6464	JOB NO. 5417.02	DATE 1/25/21

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		PLUMBING SCHEDULE	PLUMB	NG GENER
	BFP	BACKFLOW PREVENTER: DUAL CHECK, LEAD FREE CAST COPPER BODY. ASSE STANDARD 1024.	1. COMPLETE ALL WORK IN F AND ALL LOCAL CODES AN	ULL COMPLIANCE WITH THE UPC, U D ORDINANCES.
RECIRC. PUMP (RP)	ВТ	WATTS" MODEL LF7R BATHTUB: 60"x 30"x 14" HIGH, WHITE ENAMELED STEEL SKIRTED TUB WITH INTEGRAL OVERFLOW, ALCOVE TYPE INSTALLATION FITTED WITH "DELTA" T14432 ASSE 1016 SINGLE HANDLE CHROME PLATED PRESSURE BALANCING VALVE, DIVERTER SPOUT AND 1.7 GPM SHOWER HEAD. FURNISH COMPLETE WITH GRID DRAIN ASSEMBLY. "AMERICAN STANDARD" 2391.202 (RIGHT SIDE DRAIN). 2390.202 (LEFT SIDE DRAIN)	2. CAREFULLY LAYOUT AND NEW AND EXISTING SERVI CONDUIT, CEILING GRID, A EFFORTS. COORDINATE TI PERFORM ALL NECESSAR	NSTALL THE PLUMBING SYSTEMS IN CES, MECHANICAL EQUIPMENT, DUC ND ANY OTHER EQUIPMENT THAT M EMPORARY CUT-OFF OF WATER ANI Y TRENCHING, BACK FILLING, CUTTI
VALVE, TYP.	C0	WASTE = 2"., VENT = 1 1/2 IN., CW & HW = 1/2 IN.	ASSOCIATED WITH THE IN DESCRIBED IN THE SPECIF	TALLATION OF THE PLUMBING SYS ICATIONS.
TANK (XT) BALL VALVE, TYP.		HOUSING, SV HUB OUTLET, FLANGED FERRULE WITH PLUG AND ROUND SCORIATED CAST IRON, POLISHED RONZE TRACTOR TOP. "ZURN" MODEL ZB-1400 (VERIFY SURFACE TYPE)	3. VERIFY ALL INVERTS BEFO FOR THE CONTRACTOR'S TOTALLY FAMILIAR WITH A THE WORK REQUIRED.	RE ROUTING ANY AND ALL PIPING. FAILURE TO COORDINATE WORK WI LL ASPECTS OF THE WORK AND ALL
008	FD	FLOOR DRAIN: CAST IRON FLOOR DRAIN WITH TRAP PRIMER CONNECTION AND TRAP GUARD, SECURED TOP, NICKEL BRONZE STRAINER. EXTENSION ADAPTER MAY BE REQUIRED, CONTRACTOR TO VERIFY AND INCLUDE IF NECESSARY. "ZURN" MODEL Z-415-P W/ TYPE B STRAINER WASTE = 2 IN., VENT = 2 IN.	4. ROUTE PIPING AS NEARLY MINOR CHANGES IN ROUT UNDERTAKE MAJOR RERO ALL REQUIRED TRANSITIO PIPING, AND EQUIPMENT 1	AS POSSIBLE TO THE ROUTING IND ING TO ACCOMMODATE THE CONDI UTING OF PIPING WITHOUT WRITTE NS, OFFSETS, MINOR RE-LOCATION O INSTALL A COMPLETE AND OPER
	FPHB	HOSE BIBB: FREEZELESS, AUTOMATIC DRAINING, WALL HYDRANT: BRASS WITH POLISHED CHROME PLATED CASTING, METAL HANDLE OPERATED, AND CHROME PLATE VACUUM BREAKER, 3/4" FPT	5. THE PROXIMITY OF WATER FROM THE STATE HEALTH POSSIBLE, IT IS DESIRABL	AND SEWER LINES SHALL BE AS FO DEPARTMENT SPECIFIES DIFFEREN TO LAY PARALLEL WATER AND SE
DETAIL	GCO	EXTERIOR GRADE CLEANOUT: PVC OR ABS FEMALE ADAPTER WITH CLEANOUT PLUG.	HORIZONTALLY, AND THE IF THIS IS NOT POSSIBLE,	WATER LINE SHOULD BE AT A HIGHE SEPARATE TRENCHES WILL BE REQ
	GD	LOCATED 2 IN. BELOW GRADE. GARBAGE DISPOSAL: CONTINUOUS FEED, GALVANIZED STEEL GRINDING ELEMENTS, WITH DISHWASHER PORT AND FACTORY CORD AND PLUG. MODEL STS-OOSN AIR PRESSURE SWITCH ACCESSORY. IN-SINKERATOR BADGER 5	6. ALL CONTRACTORS BIDDI	ONE LINE HAS BEEN INSTALLED PR ONE FOOT ABOVE THE SEWER LINE. OR TEN FEET ON EACH SIDE OF THE
	L1	ELECTRICAL:120-1PH-60 Hz., 1/2HP, 6.3 AMP LAVATORY: PEDESTAL MOUNTED, VITREOUS CHINA, 4" FAUCET CENTERS, "DELTA" 2532LF-MPU CHROME PLATED FAUCET WITH POP-UP DRAIN, 0.5 GPM FLOW RATE. "AMERICAN STANDARD" EDGEMERE 0445.004 WASTE = 2 IN., VENT = 1 - 1/2 IN., CW & 1/2 = IN.	BIDS. NO SUBSEQUENT AN INSPECTIONS BY THE SUC INTERFERE WITH NEW CO INACTIVE BY THIS CONTRA FOR A RULING AS TO THEI	LOWANCE WILL BE MADE TO COMP CESSFUL CONTRACTOR. ANY LINES NSTRUCTION SHALL BE RELOCATED CTOR UNDER THIS CONTRACT BY F R REMOVAL, RELOCATION, ETC.
/SEE ARCH. DWG's FOR ROOF CONST.	L2	LAVATORY: COUNTERTOP MOUNTED VITREOUS CHINA, SELF-RIMMING, FRONT OVERFLOW, 4" FAUCET CENTERS, "DELTA" 2532LF-MPU CHROME PLATED FAUCET WITH POP-UP DRAIN, 0.5 GPM FLOW RATE. "AMERICAN STANDARD" AQUALYN 0476.028	 PROVIDE ACCESS PANELS INSULATE ALL ABOVE GRA LABEL PIPE WITH FLUID TY 	TO ALL INACCESSIBLE PLUMBING E DE PIPING (DOMESTIC HOT, COLD, A 'PE AND FLOW DIRECTION.
	PR	WASTE = 2 IN., VENT = 1 1/2 IN., CW & HW = 1/2 IN. GAS PRESSURE REGULATOR: STRAIGHT THROUGH BODY, DIAPHRAGM TYPE ASSEMBLY WITH INTERNAL RELIEF VALVE, DIE CAST ALUMINUM HOUSING, 3/4" INLET x 1" OUTLET CAST IRON VALVE BODY, 125 PSIG WORKING PRESSURE, 10# INLET PRESSURE, 7"w.c. OUTLET PRESSURE.	 ALL BELOW GRADE WATER INSULATE ALL EXPOSED C SINKS WITH AN A.D.A. APP INSTALLATION. 	R PIPING TO BE PRE-INSULATED PEX OLD AND HOT WATER SUPPLY TUBII ROVED ENCLOSURE. INCLUDE ALL F
E PIPE TO NEXT LARGER E (EXCEPT 4")	RP	"SENSUS" MODEL 143-80	 PERFORM PRESSURE TES TEST PRIOR TO COVERING PRESSURE TEST, FLUSH A 	T OF WASTE/VENT/STORM LINE PER 3 THE WORK. ND DISINFECT ALL DOMESTIC WATE
PE, REQUIRED SIZE	S1	KITCHEN SINK: STAINLESS STEEL TWO COMPARTMENT KITCHEN SINK CONSTRUCTED OF 18 GAUGE TYPE 304 SS, SINGLE HOLE PUNCH WITH "DELTA" 19978-DST CHROME PLATED SINGLE LEVER FAUCET WITH INTEGRAL SPRAY HEAD, BASKET STRAINER, CHROME PLATED BRASS "P" TRAP AND TAILPIECE.	PLUMBING CODE PRIOR TO 13. AFTER ALL PIPING HAS BE SPACE UNDER THE FLOOF FLOOR IN ACCORDANCE W	CALLING FOR FINAL INSPECTION. EN INSTALLED, TESTED, CLEANED, A AND TAMP TO PROCTOR 95%. REP ITH THE SPECIFICATIONS.
DETAIL	SH	"KOHLER" MODEL K-3820-1 WASTE = 2 IN., VENT = 1 - 1/2 IN., CW & HW = 1/2 IN, SHOWER: ASSE 1016 PRESSURE BALANCING VALVE WITH LEVER HANDLE, INTEGRAL STOPS, 1.5 GPM FLOW CONTROL, "DELTA" T14232 SHOWER VALVE AND SPRAY HEAD, CHROME PLATED. "STERLING" 72100100 NOMINAL 36"x 36"x 72" HIGH MOLDED VIKRELL (WHITE) 3-WALL MODULAR SUBDOLIND AND PAGE	 ALL PLENUM INSTALLED M ACHIEVE A VALUE LOWER FLUSHING LEVERS/MECHA ALL EXPOSED PIPE WALL F 	ATERIALS MUST BE PLENUM RATED THAN 25 FLAME SPREAD AND 50 SM NISMS SHALL BE PLACED ON THE A PENETRATIONS IN FINISHED SPACES
	TMV	WASTE = 2 IN., VENT = 1-1/2 IN., CW & HW = 1/2 IN. THERMOSTATIC MIXING VALVE: 1/2"-1" (SEE PLAN FOR SIZE) ASSE 1070 POINT-OF-USE MIXING VALVE. SET AT 105°F. COLD WATER 50°F.; HOT WATER 140°F.	PLATED ESCUTCHEONS SI 17. ALL EXTERIOR STEEL GAS	PIPING SHALL BE PAINTED, COLOR
DETAIL 2-100 "STANDARD 275 ORK SHALL CONFORM WITH	WB	"WATTS" MODEL LFMMV WASHER BOX: PACKAGED WASHER BOX, 20 GA, GALVANIZED BOX, BALL VALVES WITH WATER HAMMER ARRESTORS, THEADED WASTE OUTLET. TOP OR BOTTOM WATER SUPPLIES. "GUY GRAY" MODEL WB200HA	PLUMBI	NG SYMBOI
IS, OPENING WINDOWS, ELECTRICAL PANELS, OF THE METER LOOP. IECTION, EXTEND 8" OUT	WC	WASTE = 2 IN.; VENT = 1 1/2 IN.; CW & HW = 1/2 IN. TANK TYPE WATER CLOSET: VITREOUS CHINA, CLOSE-COUPLED, SIPHON JET ELONGATED BOWL, BOLT CAPS, 1.6/1.1 GALLON DUAL FLUSH, TOP PUSHBUTTON OPERATOR, 16-1/2" RIM HEIGHT, CLOSED FRONT SEAT AND COVER. "DELTA" D43908D		UNIT DESIGNATION
	WCO	WASTE = 3 IN., VENT = 2 IN., CW = 3/4 IN. WALL CLEANOUT: BRASS PLUG WITH ROUND STAINLESS STEEL SECURED ACCESS COVER, SEE		POINT OF CONNECTION
		PLAN FOR SIZE. "ZURN" MODEL Z-1468	D	CONDENSATE DRAIN
ATION.	WH2	GAS-FIRED WATER HEATER: DIRECT VENT, GLASS LINED 40 GALLON TANK, 150 PSI WORKING PRESSURE, .66 UEF, ELECTRONIC GAS CONTROL, 40,000 BTUH NATURAL GAS INPUT, 41 GPH RECOVERY AT 90 DEGREE RISE, ASHRAE/IES 90.1 COMPLIANT, 6 YEAR WARRANTY. "STATE" MODEL GS6 40 YBDS	——— v ——— ——— - ——	VENT COLD WATER
	WH3	GAS-FIRED WATER HEATER: DIRECT VENT, GLASS LINED 50 GALLON TANK, 150 PSI WORKING PRESSURE, .65 UEF, ELECTRONIC GAS CONTROL, 50,000 BTUH NATURAL GAS INPUT, 51 GPH RECOVERY AT 90 DEGREE RISE, ASHRAE/IES 90.1 COMPLIANT, 6 YEAR WARRANTY. "STATE" MODEL GS6 50 YRDS	G	GAS (NATURAL) MEDIUM PRESSURE GAS
NIMUM CLEARANCE FROM	ХТ	EXPANSION TANK: POTABLE WATER USE, 150 MAX. WORKING PRESSURE, 2.0 GALLONS TOTAL VOLUME, ASME, 55 PSIG FACTORY PRECHARGE.	— — w — —	WASTE
ROUGH METER. DIRECTION		"AMTROL" MODEL ST-5C	▼	GAS COCK
				CHECK VALVE
			ליי ה	
NTUA NATURAL GAS				UNION
ED 2014. ALL UTILITY WORK UA STANDARDS.			A	PRV
YELLOW STRIPE 8300 SERIES. SHALL BE MANUFACTURED			Nyty Nyty	REDUCED PRESSURE BACK
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igodolPOINT OF CONNECTION _____D____ CONDENSATE DRAIN VENT ___ V __ __ COLD WATER _____ _____ HOT WATER SUPPLY GAS (NATURAL) _____G_____ ------MPG-------MEDIUM PRESSURE GAS WASTE GAS COCK |▼| CHECK VALVE RELIEF VALVE BALL VALVE (BV) STRAINER WITH DRAIN VALVE UNION PRV REDUCED PRESSURE BACKFLOW PREVENTER Φ FLOOR SINK VENT THRU ROOF 00 DOUBLE CLEAN OUT CLEAN OUT FLOOR DRAIN • R REGULATOR \otimes VALVE IN VALVE BOX Μ METER

BELOW GRADE

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GENERAL NOTES - 3 BEDROOM 1 ALL WORK AND EQUIPMENT REFLECTED ON THIS SHEET IS PART OF UNIT PRICE A.

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	KEYED NOTES
23.02	LOCATE GRILLE HIGH SIDEWALL OF SOFFIT.
23.04	ROUTE 6" EXHAUST DUCT UP THROUGH ROOF AND TERMINATE
23.05	ROUTE DUCT IN EXTERIOR SOFFIT. PROVIDE 2" DUCT WRAP ARC SOFFIT.
23.06	4" DRYER EXHAUST DUCT. TERMINATE WITH WALL CAP WITH NO
23.07	3" FURNACE COMBUSTION AIR AND VENT PIPES. ROUTE UP THR TERMINATE WITH MANUFACTURER'S CONCENTRIC VENT KIT.
23.08	4" OSA INTAKE DUCT WITH MOTORIZED DAMPER. INTERLOCK DA DAMPER IS OPEN WHENEVER FURNACE IS RUNNING. BALANCE
23.09	TERMINATE DUCT ON CLERESTORY SIDEWALL WITH INTAKE WA SCREEN.
23.10	FURNACE WITH VERTICAL DX COOLING COIL. SEE SECTION ON N DETAILS.
23.11	MOUNT CONDENSING UNIT ON 4" THICK CONCRETE PAD THAT E SIDE OF THE UNIT.
23.12	10"X3-1/4" KITCHEN EXHAUST DUCT CONNECTED TO MICROWAV WITH WALL CAP PER MANUFACTURER'S INSTRUCTIONS.

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GENERAL NOTES - 2 BEDROOM		KEYED NOTES
1 ALL WORK AND EQUIPMENT REFLECTED ON THIS SHEET IS PART OF UNIT PRICE B.	23.02	LOCATE GRILLE HIGH SIDEWALL OF SOFFIT.
	23.03	2" FURNACE COMBUSTION AIR AND VENT PIPES. ROUTE UP THRO TERMINATE WITH MANUFACTURER'S CONCENTRIC VENT KIT.
	23.04	ROUTE 6" EXHAUST DUCT UP THROUGH ROOF AND TERMINATE \
	23.06	4" DRYER EXHAUST DUCT. TERMINATE WITH WALL CAP WITH NO
	23.08	4" OSA INTAKE DUCT WITH MOTORIZED DAMPER. INTERLOCK DA DAMPER IS OPEN WHENEVER FURNACE IS RUNNING. BALANCE T
	23.09	TERMINATE DUCT ON CLERESTORY SIDEWALL WITH INTAKE WAL SCREEN.
	23.10	FURNACE WITH VERTICAL DX COOLING COIL. SEE SECTION ON M DETAILS.
	23.11	MOUNT CONDENSING UNIT ON 4" THICK CONCRETE PAD THAT EX SIDE OF THE UNIT.
	23.12	10"X3-1/4" KITCHEN EXHAUST DUCT CONNECTED TO MICROWAVE WITH WALL CAP PER MANUFACTURER'S INSTRUCTIONS.

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TERMINATE WITH MANUFACTURER'S CONCENTRIC VENT KIT. 23.04 23.06 ROUTE 6" EXHAUST DUCT UP THROUGH ROOF AND TERMINATE WITH ROOF CAP. 4" DRYER EXHAUST DUCT. TERMINATE WITH WALL CAP WITH NO BIRD SCREEN. 4" OSA INTAKE DUCT WITH MOTORIZED DAMPER. INTERLOCK DAMPER WITH FURNACE SO DAMPER IS OPEN WHENEVER FURNACE IS RUNNING. BALANCE TO 45 CFM. 23.08 23.09 TERMINATE DUCT ON CLERESTORY SIDEWALL WITH INTAKE WALL CAP WITH INSECT SCREEN. FURNACE WITH VERTICAL DX COOLING COIL. SEE SECTION ON M601 FOR CONNECTION 23.10 DETAILS. 23.11 MOUNT CONDENSING UNIT ON 4" THICK CONCRETE PAD THAT EXTENDS 6" BEYOND EACH SIDE OF THE UNIT.

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		LIGHT	ING FI>	KTUR	E SCH	IEDI	JLE		
NOTES: shown a	1. Unless otherwise noted, all interior re to bottom of fixture. 3. This schedule	fixtures shall be 35 applies to the entir	K CCT, all exterior e project; not all fixt	30K. Interior fixt tures are used o	ures shall have In this building.	minimum &	30 CRI, unless h	igher CF	RI noted below. 2. All heights
TYPE	DESCRIPTION	MOUNTING	HEIGHT	MAKE	MODEL	WATTS	LUMENS	CRI	NOTES
А	8" SLIM ROUND DISK	SURFACE	CEILING	AFX	EGRF	16	1000	90	
В	27" RESTROOM VANITY	WALL	7' 6" AFF	AFX	SNV	26	2000	90	
С	SWITCHED PORCH LIGHT	WALL	7' AFF	AFX	NWPW	10	880	80	
D	ROUND PENDENT	PENDENT	10' AFF	AFX	APP	30	2400	90	
F	55" LED TRACK LIGHTING	SUSPENDED TRACK	8' AFF	AFX	CRRF	37	2700	90	
G	22" UNDER CABINET	CABINET	CABINET	AFX	KNLU	11	650	90	INTEGRAL SWITCH
Н	CEILING FAN	PENDENT	8" AFF	OXYGEN	SOL	41	1000	90	
K	8" PENDENT	PENDENT	8' AFF	AFX	HTP	60	800	90	
М	12" PENDENT	PENDENT	7' AFF	AFX	CLEP	60	800	90	
S3	SOLAR POWERED STREETLIGHT TYPE 3 DISTRIBUTION.	POLE	20' AFG	SOTECH	CEGOINIA	30	6000	70	

MECHANICAL EQUIPMENT CONNECTION SCHEDULE

NOTES: 1. Confirm neutral conductor requirements with equipment installer prior to installing branch circuits. 2. All VFDs are provided by mechanical contractor and installed by electrical contractor, but VFD startup and programming must be by									
UNIT	DESCRIPTION	ELECTRICAL	HP	FLA	MCA	CB AT PANEL	DISC. AT UNIT	CONDUCTORS/CONDUIT	NOTES
CU2	CONDENSING UNIT - 2 BEDROOM	240 V/2-3510 VA		14.625	16.7	25 A	NEMA 3R	#10CU + #10CU EGC IN 1/2" C	
CU3	CONDENSING UNIT - 3 BEDROOM	240 V/2-4680 VA		19.5	23.6	40 A	NEMA 3R	#8CU + #10CU EGC IN 3/4" C	
СХ	CEILING EXHAUSTER	120 V/1-29 VA	1/20			15 A	WALL SWITCH	#12CU + #12CU EGC IN 1/2" C	
F2	FURNACE - 2 BEDROOM	120 V/1-1096 VA		9.13	10.3	15 A	SWITCH	#12CU + #12CU EGC IN 1/2" C	
F3	FURNACE - 3 BEDROOM	120 V/1-1486 VA		12.38	12.9	15 A	SWITCH	#12CU + #12CU EGC IN 1/2" C	
GD	GARBAGE DISPOSER	120 V/1-756 VA	1/2			0 A	CORD AND PLUG	#12CU + #12CU EGC IN 1/2" C	CONNECT TO INSINKERATOR STS-OOSN SWITCH. COORDINATE WITH GC
HW	WATER HEATER	120 V/1-50 VA	FRACT			15 A	SWITCH	#12CU + #12CU EGC IN 1/2" C	
MD	MECHANICAL DAMPER	120 V/1-20 VA	FRACT			0 A	SWITCH	#12CU + #12CU EGC IN 1/2" C	CONNECT 24V TRANSFORMER SUPPLIED BY MECHANICAL.
RP	RECIRC PUMP	120 V/1-52 VA	FRACT			15 A	SWITCH	#12CU + #12CU EGC IN 1/2" C	

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LIGHTING								
Γ	A	RECTANGULAR FIXTURE, CEILING MOUNTED (DIMENSIONS AS SHOWN)						
4	ⁱ O	CUND FIXTURE, CEILING MOUNTED (DIMENSIONS AS SHOWN)						
A	B C	TRACK LIGHTING (LENGTH AS SHOWN, HEADS NOT TO SCALE)						
	^A O-	POLE MOUNTED FIXTURE (HEADS NOT TO SCALE)						
АÇ		ARM SYMBOL ADDITION INDICATES WALL MOUNTING						
A 💽	A •	DOT SYMBOL ADDITION INDICATES PENDANT MOUNTING						
A-E	A-E	HALF FILLED SYMBOL INDICATES EMERGENCY VERSION						
WITH	WITH DOUBLE	EXIT SIGNS (FILL INDICATES NUMBER OF FACES)						
LIGHTS ARKUW FACE NOTES: 1. LOWER CASE LETTERS AFTER A COMMA IN THE FIXTURE DESIGNATION INDICATE SWITCHING, FOR EXAMPLE, "A3, b" INDICATES A A3 FIXTURE CONTROLLED BY SWITCH b								
2. A FIXTUR THE FIXTUR 3. DIMENSIO	RE DESIGNATION ENDIN RE SYMBOL MAY BE TO ONS AND MOUNTING HE	IG IN "-E" INDICATES AN EMERGENCY FIXTURE, EVEN WHERE O SMALL TO SHOW A HALF-FILL CLEARLY. FIGHTS IN THE LIGHTING FIXTURE SCHEDUI E SUPERCEDE						
INFORMATIO	ON IMPLIED BY THESE	SYMBOLS. SYMBOLS ARE FOR GENERAL REFERENCE ONLY.						
SWITCHING								
\$	20A, 1 POLE 1	FOGGLE SWITCH						
\$ 3	20A, 3-WAY I	OGGLE SWITCH						
\$4 \$	S4 20A, 4-WAY TOGGLE SWITCH							
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ф N								
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	TIME CLOCK	SWITCH						
PH	PHOTOSENS(DR						
RÒ	ROOM CONTR	ROLLER (ABOVE CEILING)						
$\circ \diamond$	ightarrow $ ightarrow$ ceiling occupancy sensor (arrows indicate view)							
φφ	WALL OCCUP	ANCY SENSOR (ARROWS INDICATE VIEW)						
POWER OUTLETS								
Ю	— SIMPLEX TYP	PE RECEPTACLE						
Ю	20A, 120V, DL	IPLEX RECEPTACLE						
₩	20A, 120V, FOURPLEX RECEPTACLE							
Ð	2P-4W RECEPTACLE (SEE PANEL SCHEDULE FOR DETAILS)							
₩ _G	20A, 120V - G BREAKER, AS	ROUND FAULT PROTECTED (AT RECEPT. OR REQUIRED FOR ACCESSIBILITY)						
$m{arphi}_{WP}$	20A, 120V - WEATHERPROOF IN USE COVER GROUND FAULT PROTECTED (AT RECEPT OR BREAKER, AS REQUIRED FOR ACCESSIBILITY)							
⊨⊖	20A, 120V, DU	IPLEX RECEPTACLE, ABOVE COUNTER						
ю	SPECIAL RECEPTACLE							

1. THE MINIMUM DEPTH FROM FINAL GRADE TO THE BOTTOM CONDUIT SHALL BE 48" FOR HIGH VOLTAGE CONDUCTORS (ABOVE 600 VOLTS). 2. THE MINIMUM DEPTH FROM FINAL GRADE TO THE BOTTOM OF CONDUIT SHALL BE 36" FOR LOW VOLTAGE CONDUCTORS (600 VOLTS AND BELOW). 3. THE BEDDING FOR CONDUIT IS 6" MIN. SHADE AND SHALL BE FREE OF DEBRIS, APPROVED BY AN NTUA INSPECTOR BEFORE BACKFILL AND SHALL BE COMPACTED AT 95% PROCTOR OR GREATER. TESTING SHALL BE SUBMITTED TO 4. SCHEDULE 80 PVC CONDUIT SHALL BE USED IN HIGH TRAFFIC AREAS AS SPECIFIED BY NTUA (I.E. PARKING LOTS, ROADS, ETC.) 5. HORIZONTAL SEPARATION SHALL BE 10 FT. MIN. BETWEEN ELECTRIC PRIMARY, GAS MAIN, SEWER MAIN, OR WATER

6. VERTICAL SEPARATION SHALL BE 1 FT. MIN. WHEN CROSSING ELECTRIC PRIMARY WITH OTHER UTILITIES. IF CLEARANCE CAN'T BE MET, INSTALL MINIMUM 4" OF CONCRETE SLURRY IN BETWEEN UTILITY CONDUITS. 7. SHORING AND/OR SLOPING IS REQUIRED ON TRENCH DEPTHS GREATER THAN 48" AS REQUIRED BY THE NESC. 8. DIRECT BURIAL CAN BE ALLOWED IN RURAL RESIDENTIAL AREAS WITH PRIOR ENGINEERING APPROVAL (SEE CM-05C) 9. ALL TRENCHES MUST BE INSPECTED PRIOR TO BACKFILL

