Newport-Mesa
Unified School District

ANDERSON ELEMENTARY
EXTERIOR CLADDING REPLACEMENT

1900 PORT SEABOURNE WAY
NEWPORT BEACH, CA 92660

OWNER
NEWPORT MESA U.S.D.
2985 BEAR ST, BLDG E
COSTA MESA, CA 92626

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ARCHITECT
STUDIO+ ARCHITECTURE
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NEWPORT BEACH, CALIFORNIA 92660

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949.228.7528 (P)
jasond@wearestudioplus.com

Agency Approval:

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-119969 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/20/2021

studio+
20520 SW Acacia, Suite 100, Newport Beach, California 92660 | P: 949.315.1993

1. IT IS THE INTENT OF THE ARCHITECT THAT THIS WORK BE IN CONFORMANCE WITH THE BUILDING AUTHORITIES HAVING JURISDICTION OVER THIS WORK AND OCCUPANCY. ALL CONTRACTORS SHALL EXECUTE THEIR WORK IN COMPLIANCE WITH THE CODES LISTED HEREIN. ALL WORK SHALL BE EXECUTED UNDER PROPER BUILDING PERMITS AS REQUIRED BY THE AUTHORITIES HAVING JURISDICTION OVER THIS PROJECT.

2. THE CONTRACTOR AND BUILDING OWNER SHALL MEET PRIOR TO NOTICE TO PROCEED AND SHALL DOCUMENT EXISTING CONDITIONS OF THE GENERAL PROJECT AREA.

3. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL VERIFY LOCATION OF ALL EQUIPMENT AND UTILITY POINTS OF SERVICE.

4. ALL BUILDING SYSTEM SERVICES (IE: WATER, SANITARY, FIRE ALARM, ELECTRIC, ETC.) SHALL REMAIN IN OPERATION THROUGHOUT CONSTRUCTION UNLESS NOTED OTHERWISE.

5. CONTRACTOR SHALL USE ONLY THOSE ENTRANCES AND PARKING FACILITIES ASSIGNED BY THE BUILDING OWNER FOR SITE ACCESS. ALL MATERIAL DELIVERIES SHALL BE SCHEDULED SO AS TO MINIMIZE DISRUPTIONS TO THE BUILDING OCCUPANTS.

6. SITE UTILITIES: THE CONTRACTOR SHALL USE EXISTING SERVICES.

7. CONTRACTOR SHALL USE THE EXISTING BUILDING IN A MANNER WHICH WILL NOT DEFACE OR DAMAGE THE EXISTING FACILITIES IN ANY FASHION. ALL DAMAGE BY CONTRACTOR AND THEIR FORCES SHALL BE REPAIRED/REPLACED BY THE CONTRACTOR AT NO COST TO THE BUILDING'S OWNER. PROVIDE PROTECTIVE MATERIAL AS WARRANTED.

8. THE CONTRACTOR SHALL FIELD MEASURE ALL DISTANCES AND CLEARANCES PRIOR TO COMMENCEMENT OF NEW WORK OR ORDERING OF MATERIALS. ANY DEVIATIONS FROM THE CONSTRUCTION DOCUMENTS SHALL BE REPORTED TO THE ARCHITECT PRIOR TO PROCEEDING WITH THAT PORTION OF WORK. THE CONTRACTOR SHALL NOT SCALE ANY DRAWINGS WITHIN THE CONSTRUCTION DOCUMENTS. ANY DISCREPANCIES SHALL BE RESOLVED BY THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING WITH THAT WORK.

9. ANY EXISTING ELEC., PLUMB OR HVAC DEVICES OR SYSTEMS WHICH ARE NEEDED TO MAINTAIN THE OPERATIONS OF THE SYSTEM, SHALL BE CAPPED OFF OR REROUTED AS NECESSARY TO MAINTAIN SYSTEM, REGARDLESS IF INDICATED HEREIN.

10. THE CONTRACTOR SHALL ENSURE THAT ALL EXISTING/NEW CONSTRUCTION WILL BE SHELTERED FROM DAMAGE BY WEATHER AT ALL TIMES DURING THE CONSTRUCTION/DEMOLITION PROCESS.

11. WHEN REMOVING FIXTURES OR DEVICES, REMOVE ALL ASSOCIATED WIRE, BOXES, FRAMING, PIPING NECESSARY TO ALLOW THE COMPLETE INSTALLATION OF NEW FINISH.

12. EVERY EFFORT HAS BEEN MADE TO ACCURATELY DEPICT EXISTING CONDITIONS. HOWEVER, ALL WORK MUST BE VERIFIED IN THE FIELD PRIOR TO THE ORDERING OF ANY MATERIALS OR ANY WORK HAS BEGUN. ANY CONFLICTS BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS SHALL BE REPORTED IMMEDIATELY TO THE ARCHITECT FOR VERIFICATION AND/OR CORRECTION.

13. ALL WORK SHALL CONFORM TO 2019 EDITION TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)

14. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA OR CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY DSA, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.

15. A "DSA" CERTIFIED PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY DSA SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR, **CLASS 3**.

16. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.

17. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24 CCR. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR, A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317 (C), PART 1, TITLE 24, CCR).

18. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.

GENERAL NOTES

1. ALL SCREENED/HALFTONE LINES INDICATE EXISTING ITEMS TO REMAIN (TYP., UNLESS NOTED OTHERWISE).

2. ALL DASHED LINES INDICATE EXISTING ITEMS TO BE REMOVED (TYP. UNLESS NOTED OTHERWISE)

3. WORK IS REQUIRED TO BE PERFORMED WITHIN EXISTING BUILDING. EACH CONTRACTOR WILL HAVE ACCESS TO AREAS IN WHICH THIS WORK OCCURS.

4. OWNER WILL OCCUPY EXISTING BUILDING DURING LIFE OF THIS CONTRACT. SCHEDULE ALL WORK AT SUCH TIME AND IN SUCH A MANNER TO MINIMIZE INTERFERENCE TO PUBLIC, STAFF AND OWNER'S OPERATIONS. CONTRACTOR MUST OBTAIN APPROVAL OF OWNER BEFORE STARTING ANY WORK WITHIN ANY EXISTING AREA OF BUILDING.

5. AREA IMMEDIATELY SURROUNDING ALL AREAS OF WORK SHALL BE PROTECTED FROM DANGER OF MATERIALS BEING DROPPED OR DISLODGED.

6. WORK SHALL BE CARRIED OUT IN A MANNER THAT WILL NOT IMPOSE AVOIDABLE HARDSHIP, DANGER, OR INCONVENIENCE TO PUBLIC OR STAFF. WORK SHALL BE PLANNED SO AS TO MINIMIZE SHUTDOWN TIME OR ANY SERVICE.

7. REVIEW ALL EXISTING CONDITIONS, DRAWINGS AND OTHER DOCUMENTS FOR PROPER COORDINATION BETWEEN NEW AND EXISTING CONSTRUCTION.

8. ACTIVE UTILITIES WHOSE LOCATIONS ARE UNKNOWN TO OWNER ARE SUSPECTED TO EXIST. CONTRACTOR SHALL BE CAUTION OF THEIR EXISTENCE. IF THEY ARE ENCOUNTERED, IMMEDIATELY REPORT TO OWNER FOR DIRECTION.

9. LIMIT USE AND OPERATION AT SITE TO "LIMITS OF CONSTRUCTION," INDICATED AND REQUIRED TO PERFORM WORK. PORTIONS OF SITE BEYOND AREA OF REQUIRED WORK SHALL NOT BE DISTURBED WITHOUT WRITTEN APPROVAL OF OWNER.

10. LIMIT USE AND OPERATION WITHIN EXISTING FACILITIES TO AREAS INDICATED FOR CONSTRUCTION WORK AND AS REQUIRED TO PERFORM WORK. OTHER AREAS WITHIN FACILITY SHALL NOT BE DISTURBED OR DISRUPTED.

11. DAMAGES TO EXISTING STRUCTURE, UTILITIES AND OTHER ITEMS WHICH ARE CAUSED BY CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED TO THEIR ORIGINAL CONDITION.

12. MAINTAIN AND KEEP CLEAR ALL REQUIRED FIRE EXITWAYS THROUGHOUT FACILITY WITHIN AND IN VICINITY OF CONSTRUCTION AREAS. COORDINATE ALTERNATE TEMPORARY EGRESS ROUTES WITH OWNER AND LOCAL FIRE AUTHORITY.

13. MAINTAIN EXISTING BUILDING IN A WEATHERTIGHT CONDITION THROUGHOUT CONSTRUCTION PERIOD. REPAIR DAMAGE AND LEAKS CAUSED BY CONSTRUCTION OPERATIONS. TAKE ALL PRECAUTION NECESSARY TO PROTECT BUILDING AND ITS OCCUPANTS DURING CONSTRUCTION PERIOD.

18. THE DEMOLITION DRAWINGS FOR ARCHITECTURAL AND ENGINEERING WORK HAVE BEEN PREPARED USING (AS DESIGNED) DOCUMENTS PROVIDED BY THE OWNER. NEITHER THE OWNER NOR THE ARCHITECT WARRANT THESE TO BE (AS-BUILT) DOCUMENTS AND ACTUAL CONDITIONS MAY VARY.

19. CONTRACTOR SHALL DISPOSE OF ALL ITEMS - OWNER RESERVES THE RIGHT TO SELECT SPECIFIC ITEMS FOR SALVAGE.

20. PROVIDE TEMPORARY DUST, SIGHT, AND SOUND BARRIERS WHEREVER NECESSARY TO LIMIT THE AMOUNT OF NOISE, DUST AND VISUAL POLLUTION WITHIN AND AROUND THE FACILITY, TO MAINTAIN OCCUPANCY AND USE OF OCCUPIED AREAS IN THE EXISTING BUILDING 24 HOURS PER DAY. THE EXACT LOCATION AND QUANTITY OF TEMPORARY BARRIERS IS TO BE DETERMINED BY CONSTRUCTION SCHEDULE AND WORK SEQUENCE. INTERIOR PARTITIONS ARE DEFINED FOR THESE PURPOSES AS FULL HEIGHT 3-5/8" METAL STUD WITH GWB FINISH, PAINTED (COLOR AS SELECTED BY OWNER), SOUND INSULATED WITH FULL HEIGHT 2" (UNFACED) SOUND ATTENUATION BLANKETS, AND SEALED TOP, BOTTOM, AND ENDS TO PREVENT THE PASSAGE OF DUST AND NOISE.

21. SAFETY DURING CONSTRUCTION TO COMPLY WITH CFC CHAPTER 33.

GENERAL DEMOLITION NOTES

Ø	DIAMETER OR ROUND	DEL	DELETE	FT	FOOT OF FEET	OFOI	OWNER-FURNISHED	TO	TOP OF
+/-	PLUS/MINUS	DET	DETAIL	FTG	FOOTING		OWNER-INSTALLED	TOC	TOP OF CURB
#	POUND OR NUMBER	DF	DRINKING FOUNTAIN	GA	GAUGE	OH	OPPOSITE HAND	TOD	TOP OF DRAIN
%	PERCENT	DIA	DIAMETER	GALV	GALVANIZED	OTO	OUT TO OUT	TOP	TOP OF PARAPET
@	AT	DIM	DIMENSION	GB	GYPSUM BOARD	PA	PUBLIC ADDRESS	TOPL	TOP OF PLATE
°	DEGREE	DL	DOOR LOUVER	GFRC	GLASS FIBER REINFORCED	PE	PAD ELEVATION	TOR	TOP OF RIDGE
℄	CENTER LINE	DN	DOWN		CONCRETE	PERP	PERPENDICULAR	TOS	TOP OF SLAB
∠	ANGLE	DP	DISABLED PERSON	GYP	GYPSUM	PH	PANIC HARDWARE	TOW	TOP OF WALL
℗	PROPERTY LINE		ACCESSIBLE	HB	HOSE BIB	PL	PLATE	TST	TOP OF STEEL
AB	ANCHOR BOLT	DS	DOWNSPOUT	HDWE	HARDWARE	PLAM	PLASTIC LAMINATE	TV	TELEVISION
ABS	ABSOLUTE	DWG	DRAWING	HM	HOLLOW METAL	PLMB	PLUMBING	TYP	TYPICAL
AC	ASPHALTIC CONCRETE	EA	EACH	HOR	HORIZONTAL	PLYWD	PLYWOOD	UC	UNERCUT
ACC	ACCESSIBLE WORK STATION	EJ	EXPANSION JOINT	HR	HOUR	PM	PARTITION MOUNTED	UNO	UNLESS NOTED
		ELEV	ELEVATION	HVAC	HEATING VENTILATION AIR	POC	POINT OF CONNECTION		OTHERWISE
ACOUS	ACOUSTICAL	ELEC	ELECTRICAL	ID	INSIDE DIAMETER	PR	PAIR	VCT	VINYL COMPOSITION TILE
ADJ	ADJACENT	EMT	ELECTRICAL METAL TUBING	IN	INCH OR INCHES	PREP	PREPARE	VERT	VERTICAL
AFF	ABOVE FINISH FLOOR	ENCL	ENCLOSURE	INT	INTERIOR	PSF	POUNDS PER SQUARE	W	WIDE FLANGE
ALUM	ALUMINUM	ENGR	ENGINEER	INV	INVERT		FOOT	W/	WITH
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	EOS	EDGE OF SLAB	JBOX	JUNCTION BOX	PSI	POUNDS PER SQUARE INCH	W/O	WITHOUT
		EQ	EQUAL	JAN	JANITOR CLOSET	PVC	POLYVINYL CHLORIDE	WD	WOOD
ARCH	ARCHITECTURAL	EQPT	EQUIPMENT	LAV	LAVATORY	R	RISER, RADIUS	WH	WATER HEATER
BD	BOARD	EW	EACH WAY	LB(S)	POUND(S)	RD	ROOF DRAIN	WI	WOODWORK INSTITUTE
BLDG	BUILDING	(E)	EXISTING	MAX	MAXIMUM	REC	RECESSED	WIN	WINDOW
BLK	BLOCK	EXP	ECPANSION	MB	MACHINE BOLT	REF	REFERENCE	WP	WATERPROOF
BLKG	BLOCKING	EXT	EXTERIOR	MDF	MEDIUM DENSITY FIBERBOARD	REQ	REQUIRED	WS	WOOD SCREW
BTWN	BETWEEN	FA	FIRE ALARM			RM	ROOM	WT	WEIGHT
C	CHANNEL	FD	FLOOR DRAIN	MFR	MANUFACTURER	RWL	RAIN WATER LEADER	WWF	WELDED WIRE FABRIC
CER	CERAMIC	FDC	FIRE DEPARTMENT CONNECTION	MH	MANHOLE	RO	ROUGH OPENING	x	BY
CF	CUBIC FEET	FDN	FOUNDATION	MIN	MINIMUM	SCHED	SCHEDULE	YD	YARD
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED	FE	FIRE EXTINGUISHER	MISC	MISCELLANEOUS	SECT	SECTION		
		FEC	FIRE EXTINGUISHER W/CABINET	MO	MASONRY OPENING	SF	SQUARE FEET	NOTE:	
CFOI	CONTRACTOR FURNISHED, OWNER INSTALLED	FF	FINISH FLOOR	MTL	METAL	SHT	SHEET	OTHER ABBREVIATIONS USED ON THESE DRAWINGS ARE CONSIDERED STANDARDS IN THE BUILDING INDUSTRY. CONTACT ARCHITECT FOR NECESSARY CLARIFICATION.	
		FG	FINISH GRADE	(N)	NEW	SIM	SIMILAR		
CJ	CONTROL JOINT	FH	FIRE HYDRANT	NIC	NOT IN CONTRACT	SM	SURFACE MOUNTED		
CLG	CEILING	FHC	FIRE HOSE W/ CABINET	NO	NUMBER	SMS	SHEET METAL SCREW		
CLR	CLEAR	FHWS	FLAT HEAD WOOD SCREW	NR	NON RATED	SOV	SHUT OFF VALVE		
CMU	CONCRETE MASONRY UNIT	FL	FLOOR	NTS	NOT TO SCALE	SPEC	SPECIFICATION		
CONC	CONCRETE	FO	FACE OF	NTS	NOT TO SCALE	SST	STAINLESS STEEL		
CONT	CONTINUOUS	FOC	FACE OF CONCRETE	O/	OVER	STD	STANDARD		
CORR	CORRIDOR	FOF	FACE OF FINISH	OA	OVERALL	STL	STEEL		
CR	CLASSROOM	FOM	FACE OF MASONRY	OC	ON CENTER	STRUCT	STRUCTURAL		
CTSK	COUNTER SUNK	FOS	FACE OF STUD	OD	OUTSIDE DIAMETER	T&B	TOP AND BOTTOM		
CTC	CENTER TO CENTER	FS	FINISH SURFACE	OFCI	OWNER-FURNISHED CONTRACTOR-INSTALLED	TEMP	TEMPORARY		
d	PENNY								
DBL	DOUBLE								

ABBREVIATIONS

APPLICABLE CODES

DIVISION OF THE STATE ARCHITECT (DSA)

CALIFORNIA CODE OF REGULATIONS (& NATIONAL REGULATIONS), TITLES AS FOLLOWS, INCLUDING ALL AMENDMENTS TO EACH:
- a. TITLE 5, EDUCATION CODE
- b. TITLE 8, INDUSTRIAL RELATIONS
- c. TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHALL REGULATIONS
- d. TITLE 24, PUBLIC WORKS
- e. TITLE 24, STATE CODE:

2019 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR

2019 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR (2018 INTERNATIONAL BUILDING CODE, VOL. 1 & 2, AND 2019 CALIFORNIA AMENDMENTS)

2019 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR (2017 NATIONAL ELECTRICAL CODE AND 2019 CALIFORNIA AMENDMENTS)

2019 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR (2018 IAPMO UNIFORM MECHANICAL CODE AND 2019 CALIFORNIA AMENDMENTS)

2019 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR (2018 IAPMO UNIFORM PLUMBING CODE AND 2019 CALIFORNIA AMENDMENTS)

2019 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR

2019 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR (2018 INTERNATIONAL FIRE CODE AND 2019 CALIFORNIA AMENDMENTS)

2019 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10 TITLE 24 CCR (2018 INTERNATIONAL EXISTING BUILDING CODE AND 2019 CALIFORNIA AMENDMENTS)

2019 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 CCR

2019 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 CCR

TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

2013 ASME A17.1/CSA B44-13 SAFETY CODE FOR ELEVATORS AND ESCALATORS

NFPA 13 - STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS (CA AMENDED) 2016 ED

NFPA 14 - STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS 2013 ED

NFPA 17 - STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEMS 2017 ED

NFPA 17A - STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEMS 2017 ED

NFPA 20 - STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION 2016 ED

NFPA 22 - STANDARD FOR WATER TANKS FOR PRIVATE FIRE PROTECTION 2013 ED

NFPA 24 -STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES 2016 ED

NFPA 72 - NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED) 2016 ED

NFPA 80 - STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES 2016 ED

NFPA 2001 - STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEMS 2015 ED

UL 300 - STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT 2005 (R2010)

UL 464 - AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES 2003 ED

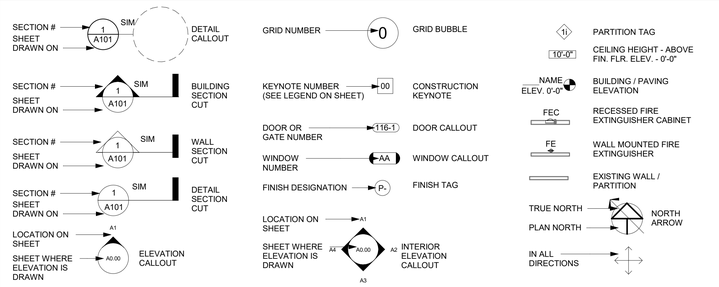
UL 521 - STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS 1999 ED

UL 1971 - STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED 2002 ED (R2010)

ICC 300 - STANDARD FOR BLEACHERS, FOLDING AND TELESCOPIC SEATING AND GRANDSTANDS 2017 ED

APPLICABLE REQUIREMENTS OF THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD)

SYMBOL LEGEND



ACCESSIBILITY SITE PLAN LEGEND

- (E) BUILDING
- (E) 20' MIN WIDE FIRE ACCESS LANE
- (E) ITEM
- (N) ITEM
- ACCESSIBLE PATH OF TRAVEL PER A# 04-105137
- ACCESSIBLE PATH OF TRAVEL PER A# 04-114236 (CCD-A #2)
- PROPERTY LINE

DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT: THE P.O.T. IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS IS COMPLIANT WITH THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE P.O.T. WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE P.O.T. THAT WERE DETERMINED TO BE NONCOMPLIANT HAVE BEEN IDENTIFIED AND THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NONCOMPLIANT ELEMENTS, COMPONENTS, OR PORTIONS OF THE P.O.T. THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE INDICATED IN THESE CONSTRUCTION DOCUMENTS.

DURING CONSTRUCTION, IF P.O.T. ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CODE COMPLIANT ARE FOUND TO BE NONCONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THEY SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS A PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.

PARKING ANALYSIS

(E) PARKING LOT #1.....A# 04-105137

REGULAR PARKING STALLS 22

REQUIRED ACCESSIBLE STALLS
ACCESSIBLE STALLS.....00
VAN ACCESSIBLE STALLS.....01

PROVIDED ACCESSIBLE STALLS
ACCESSIBLE STALLS.....01
VAN ACCESSIBLE STALLS.....01

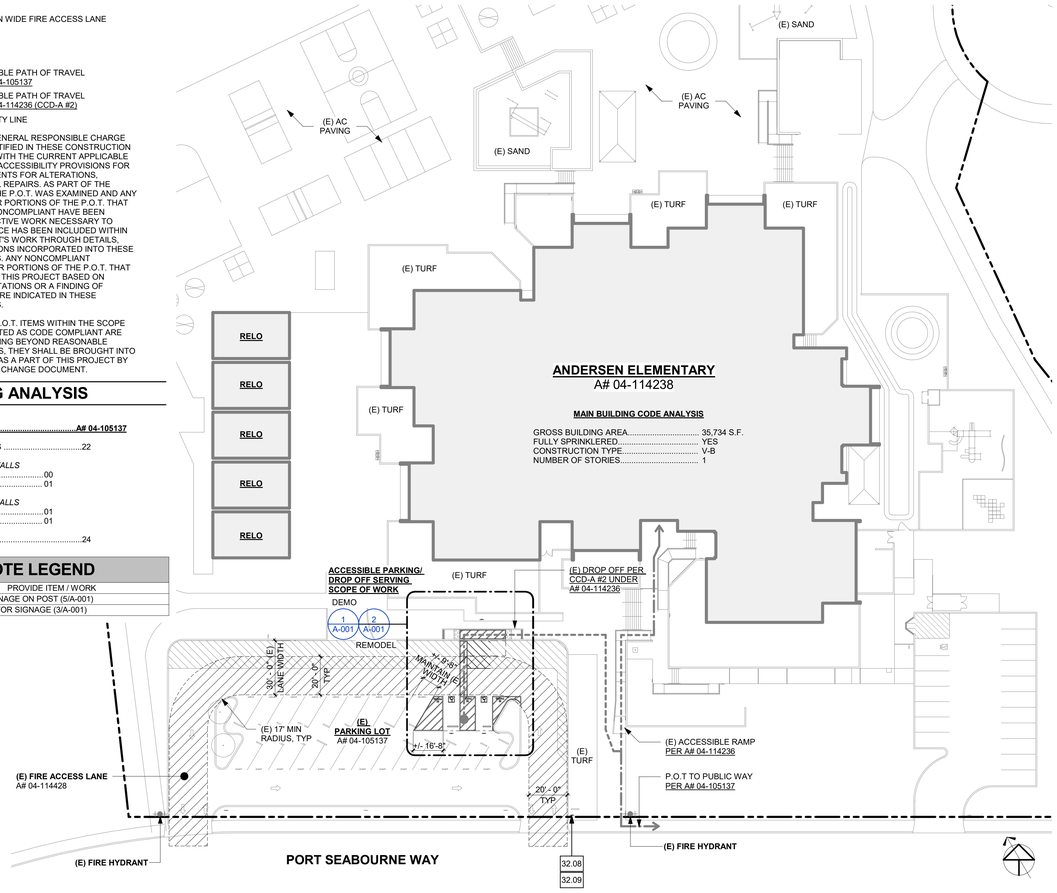
TOTAL PARKING STALLS 24

KEYNOTE LEGEND

NUMBER	PROVIDE ITEM / WORK
32.08	TOW AWAY SIGNAGE ON POST (5/A-001)
32.09	(N) SIGN POST FOR SIGNAGE (3/A-001)

SHEET INDEX

SHEET NUMBER	SHEET NAME	ISSUE DATE	REVISION DATE
G-000	GENERAL NOTES, PROJECT INFO, SYMBOLOGY AND ABBREVIATIONS	04/20/2021	
A-001	ENLARGED ACCESSIBILITY SITE PLANS	04/20/2021	
A-100	CLADDING PLAN	04/20/2021	
A-101	SOFFIT PLAN	04/20/2021	
A-200	EXTERIOR ELEVATIONS	04/20/2021	
A-300	DETAILS	04/20/2021	
A-400	SPECIFICATIONS	04/20/2021	
A-402	SPECIFICATIONS	04/20/2021	
A-403	SPECIFICATIONS	04/20/2021	
A-401	SPECIFICATIONS	04/20/2021	
Grand total: 10			



FIRE ACCESS & ACCESSIBILIY SITE PLAN | 1 | 1/32" = 1'-0"

PROJECT INFORMATION

CLIENT:	NEWPORT-MESA UNIFIED SCHOOL DISTRICT 2985 BEAR ST COSTA MESA, CA 92626
PROJECT NAME:	EXTERIOR CLADDING REPLACEMENT
PROJECT ADDRESS:	ANDERSEN ELEMENTARY SCHOOL 1900 PORT SEABOURNE WAY NEWPORT BEACH, CA 92660
SCOPE OF WORK:	ALTERATIONS TO 1-PARKING LOT, 1-ADMINISTRATION/ CLASSROOM BUILDING (MAIN BUILDING). REMOVAL OF EXISTING WOOD CLADDING AND REPLACEMENT WITH METAL & WOOD CLADDING, ACCESSIBILITY UPGRADES
DEFFERED APPROVAL:	NONE

BID ALTERNATE

UNIT PRICE 'A' - SOFFIT REPLACEMENT

IT IS ANTICIPATED THAT SOME (E) WD SOFFITS MIGHT NEED REMOVED & REPLACED IN KIND. CONTRACTOR SHALL INCLUDE A COST PER SQUARE FOOT BUDGET WITHIN THE BID FOR A POSSIBLE SOFFIT REPLACEMENT. BUDGET SHALL INCLUDE REMOVAL OF (E) WD SOFFIT, INSTALLATION OF NEW PLYWD SOFFIT INCLUDING PATCH, REPAIR, AND PAINT TO MATCH (E).

FOR INSTALLATION AND FASTENING -
REFER DETAIL : 12 / A-300

Design Professional

LICENSED ARCHITECT JASON A. DONTJE NO. C-32176 REN. 07-31-21 STATE OF CALIFORNIA

Project Title:

ANDERSEN ELEMENTARY
EXTERIOR CLADDING REPLACEMENT

Revisions:

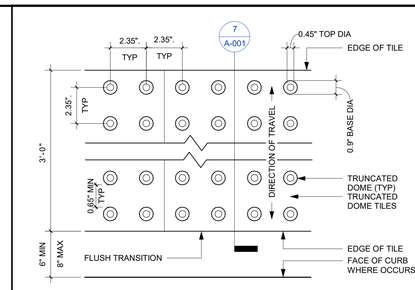
Project #: **CA21000.01** DSA A#: **04-119969**

Date: **04/20/2021**

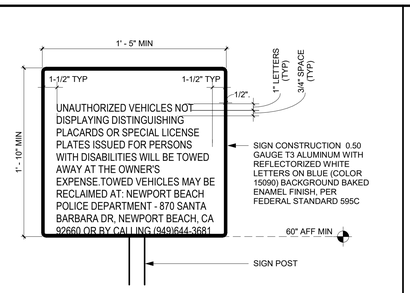
Sheet Title:

GENERAL NOTES, PROJECT INFO, SYMBOLOGY AND ABBREVIATIONS

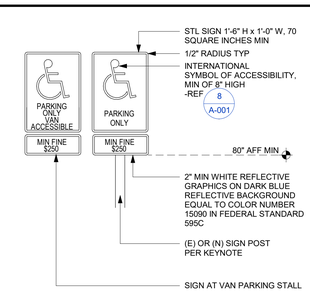
G-000



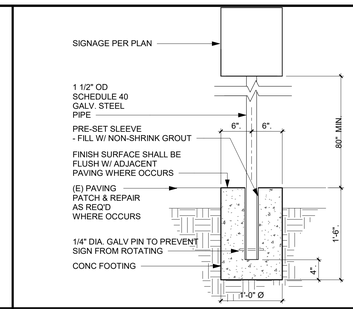
(E) DETECTABLE WARNING PLAN | 6 | 3" = 1'-0"



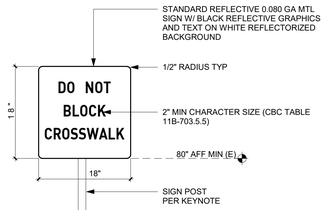
TOW AWAY SIGNAGE | 5 | 1 1/2" = 1'-0"



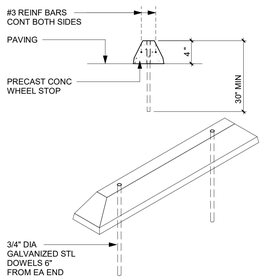
ACCESSIBLE PARKING SIGNAGE | 4 | 3" = 1'-0"



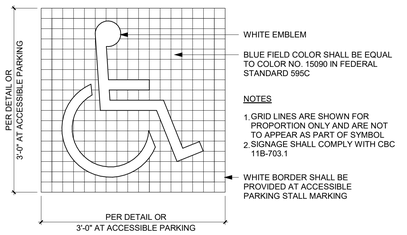
SIGN POST & FOOTING | 3 | 3" = 1'-0"



'DO NOT BLOCK CROSSWALK' SIGNAGE | 10 | 1 1/2" = 1'-0"

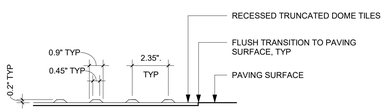


(E) REINSTALLED PRECAST CONC WHEEL STOP | 9 | 3/4" = 1'-0"



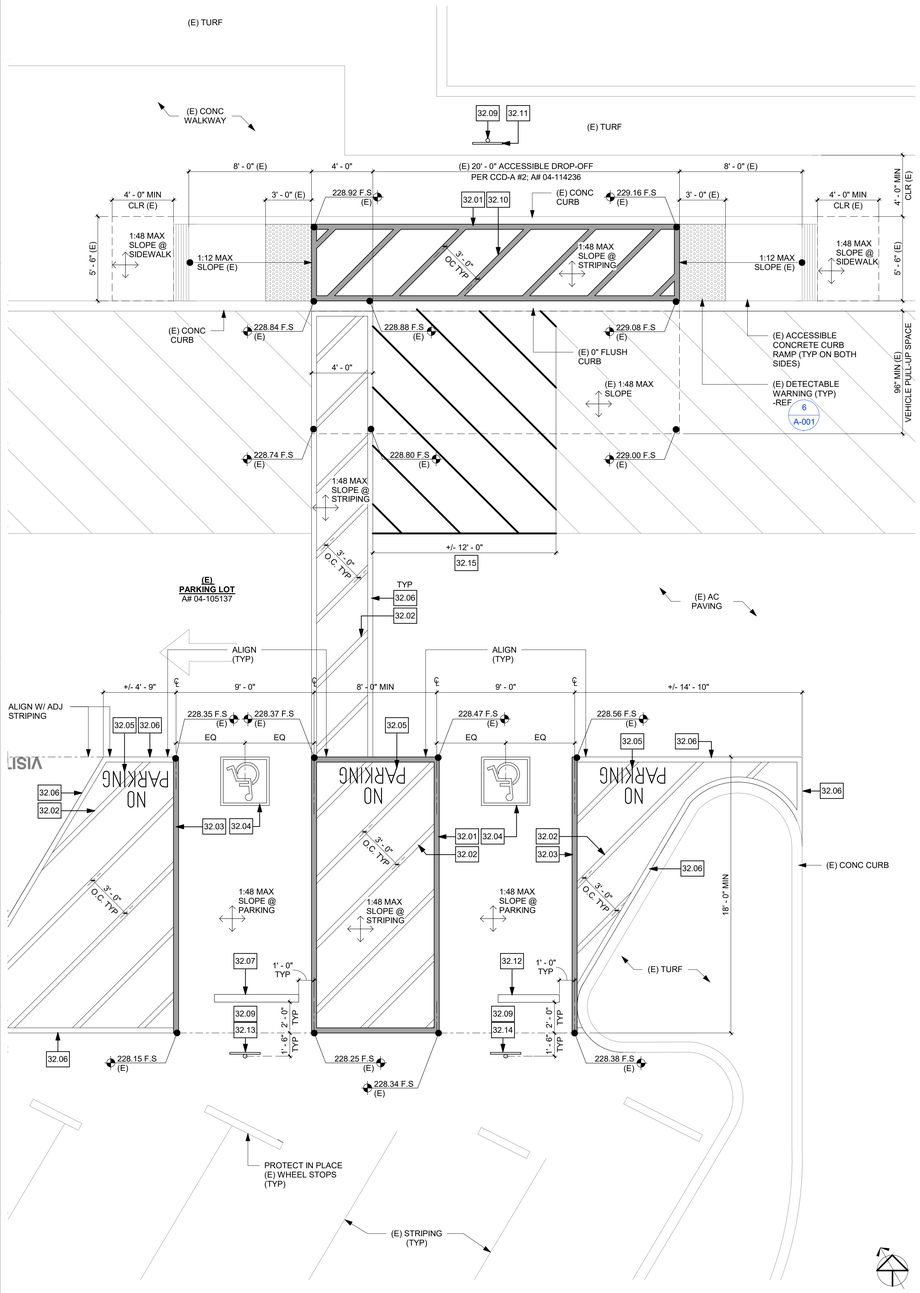
NOTE:
SYMBOL PROPORTIONS SHALL APPROXIMATE CBC FIGURE 11B-703.7.2.1

ISA | 8 | 1/8" = 1'-0"

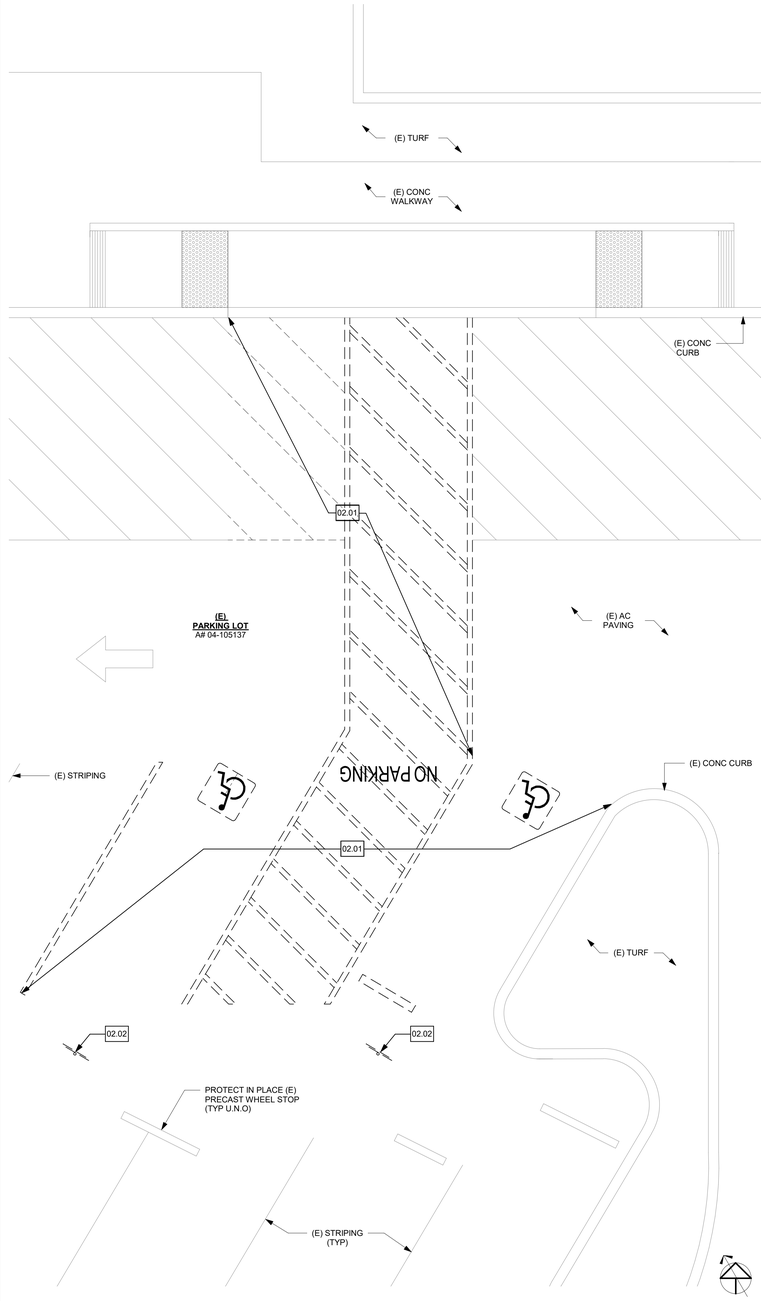


NOTE: MILL DOWN (E) CONC PAVING AS REQUIRED TO RECESS DETECTABLE WARNING WITHIN FOR FLUSH TRANSITION

(E) DETECTABLE WARNING SECTION | 7 | 3" = 1'-0"



ENLARGED REMODEL PLAN - ACCESSIBLE PARKING & DROP-OFF | 2 | 1/4" = 1'-0"



ENLARGED DEMO PLAN - ACCESSIBLE PARKING & DROP OFF | 1 | 1/4" = 1'-0"

Agency Approval:

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-119969 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/20/2021

studio+
20520 SW Acacia, Suite 100, Newport Beach, California 92660 | P: 949.315.1993

KEYNOTE LEGEND

NUMBER	PROVIDE ITEM / WORK
02.01	SAND BLAST (E) STRIPING & SLURRY SEAL ACROSS ENTIRE EXTENT OF (N) STRIPING
02.02	DEMO SIGN POST & FOOTING
32.01	PAINT 4" WIDE BLUE BORDER
32.02	PAINT 4" WIDE WHITE HATCHING AT 36" OC WITH NO STRIPE THROUGH 'NO PARKING' TEXT
32.03	PAINT 4" WIDE BLUE STRIPE
32.04	PAINT 36" SQUARE SYMBOL ISA SYMBOL (8/A-001)
32.05	PAINT 'NO PARKING' IN 12" HIGH WHITE LETTERS
32.06	PAINT 4" WIDE WHITE STRIPE/ BORDER
32.07	RELOCATE (E) 72" LONG & 4" HIGH WHEEL STOP PER REMODEL PLANS (9/A-001)
32.09	(N) SIGN POST FOR SIGNAGE (3/A-001)
32.10	PAINT 4" WIDE BLUE HATCHING AT 36" OC
32.11	'DO NOT BLOCK CROSSWALK' SIGNAGE (10/A-001)
32.12	RELOCATE (E) 48" LONG & 4" HIGH WHEEL STOP PER REMODEL PLANS (9/A-001)
32.13	ACCESSIBLE PARKING STALL SIGNAGE ON POST (4/A-001)
32.14	ACCESSIBLE VAN PARKING STALL SIGNAGE ON POST (4/A-001)
32.15	PATCH W/ 4" WIDE YELLOW HATCHING - MATCH ADJ EXISTING STRIPING

Design Professional

LICENSED ARCHITECT
JASON A. DONJET
NO. C-32176
EXPIRES 07-31-21
STATE OF CALIFORNIA

Project Title:

ANDERSEN ELEMENTARY
EXTERIOR CLADDING REPLACEMENT

Revisions:

Project #: **CA21000.01** DSA A#: **04-119969**

Date: **04/20/2021**

Sheet Title:

ENLARGED ACCESSIBILITY SITE PLANS

A-001



CLADDING PLAN 1

3/32" = 1'-0"

Agency Approval:

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CLADDING PLAN LEGEND

- (E) CONSTRUCTION
- LOCATION OF (N) EXTERIOR CLADDING (REF ELEVATIONS AND/ OR KEYNOTES)
- REMOVE & REPLACE MTL COPING PER DETAILS HEREIN
- (E) CONDUIT U.N.O

CLADDING PLAN NOTES

1. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.
2. ALL DIMENSIONS ARE TO OUTSIDE FACE OF (E) WD STUD FRAMING.
3. CLADDING SHALL BE METAL UNLESS NOTED OTHERWISE.
4. DO NOT FASTEN ITEMS THROUGH METAL SIDING OR COPING.
5. PROTECT IN PLACE (E) CONDUIT & ELECTRICAL BOXES.

KEYNOTE LEGEND

NUMBER	PROVIDE ITEM / WORK
02.03	REMOVE & REINSTALL (E) LADDER AS REQUIRED FOR (N) WORK
07.01	FIBER CEMENT SIDING

Design Professional

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NO. C-32176
REN. 07-31-21
STATE OF CALIFORNIA

Project Title:

ANDERSEN ELEMENTARY
EXTERIOR CLADDING REPLACEMENT

Revisions:

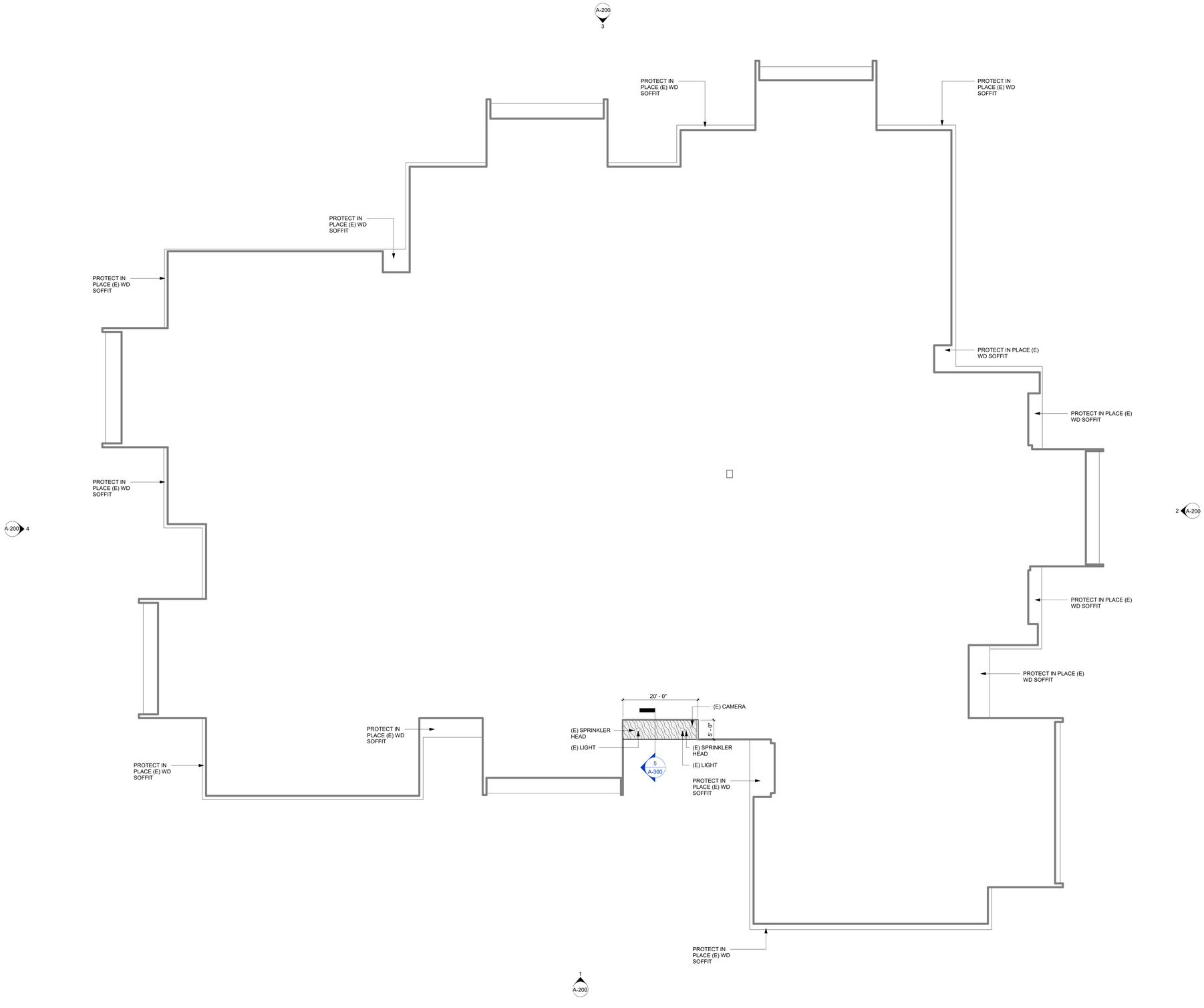
Project #: **CA21000.01** DSA A#: **04-119969**

Date: **04/20/2021**

Sheet Title:

CLADDING PLAN

A-100



SOFFIT PLAN | 1
3/32" = 1'-0"

Agency Approval:

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APP: 04-119969 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/20/2021

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EXTERIOR SOFFIT LEGEND

- DEMO WD SOFFIT & INSTALL WD SOFFIT PER DETAILS
- (E) CONSTRUCTION
- (N) CONSTRUCTION

SOFFIT NOTES

1. ALL DIMENSIONS SHALL BE VERIFIED IN FIELD PRIOR TO CONSTRUCTION.
2. (E) WD SIDING AND OTHER ITEMS SHALL BE DEMOLISHED AT AREAS OF (N) SIDING PER REFERENCED DETAILS.
3. FOR DETAIL REFERENCES - REF. 1 / A-100
4. CONTRACTOR SHALL INSTALL SOFFIT AROUND LIGHTS, CONDUIT PENETRATIONS, FIRE ALARM DEVICES, AND ALL OTHER (E) SOFFIT-MOUNTED ITEMS WHERE THEY OCCUR.

Design Professional

LICENSED ARCHITECT
JASON A. DIMITRE
NO. C-32176
REN. 07-31-21
STATE OF CALIFORNIA

Project Title:

ANDERSEN ELEMENTARY
EXTERIOR CLADDING REPLACEMENT

Revisions:

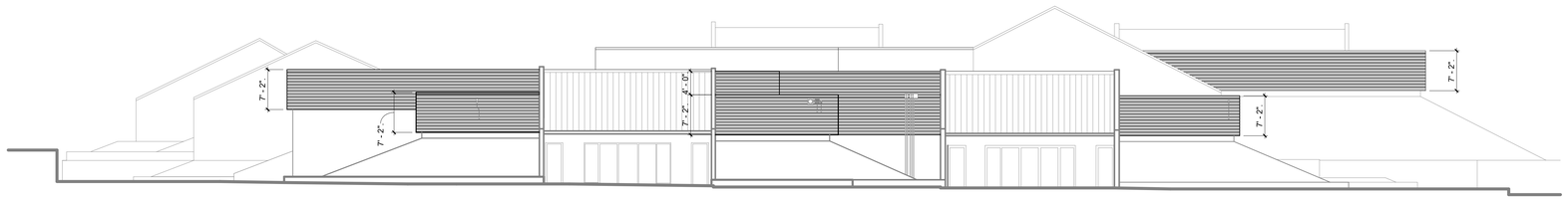
Project #: **CA21000.01** DSA A#: **04-119969**

Date: **04/20/2021**

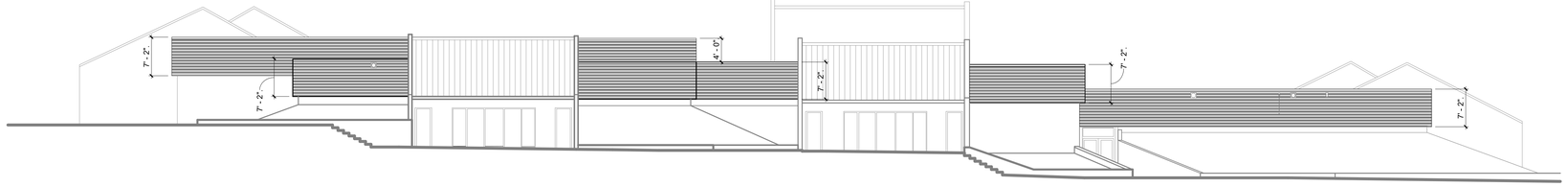
Sheet Title:

SOFFIT PLAN

A-101



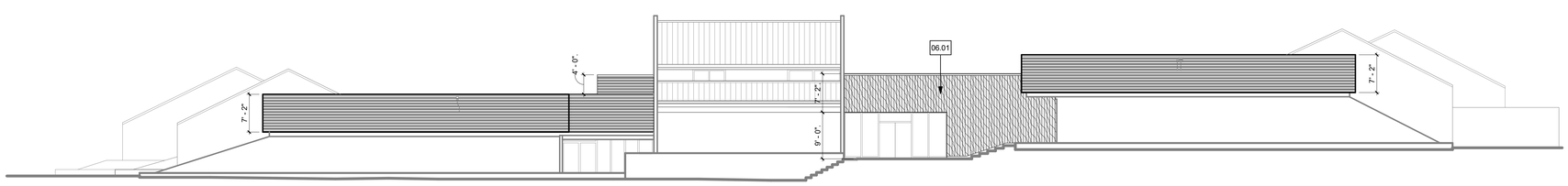
WEST ELEVATION | 4 | 3/32" = 1'-0"



NORTH ELEVATION | 3 | 3/32" = 1'-0"



EAST ELEVATION | 2 | 3/32" = 1'-0"



SOUTH ELEVATION | 1 | 3/32" = 1'-0"

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EXTERIOR ELEVATION LEGEND

- DEMO WD SIDING & INSTALL HORIZ MTL SIDING PER DETAILS
- DEMO WD SIDING & INSTALL VERT WD TONGUE & GROOVE SIDING PER DETAILS
- (E) CONSTRUCTION
- (N) CONSTRUCTION

EXTERIOR ELEVATION NOTES

1. ALL DIMENSIONS SHALL BE VERIFIED IN FIELD PRIOR TO CONSTRUCTION.
2. (E) WD SIDING AND OTHER ITEMS SHALL BE DEMOLISHED AT AREAS OF (N) CLADDING PER REFERENCED DETAILS.
3. CONTRACTOR SHALL INSTALL CLADDING AROUND LIGHTS, CONDUIT PENETRATIONS, FIRE ALARM DEVICES, AND ALL OTHER (E) FASCIA / WALL-MOUNTED ITEMS.
4. FOR DETAIL REFERENCES - REF 1 / A-100
5. CLADDING SHALL BE MTL UNLESS NOTED OTHERWISE.

KEYNOTE LEGEND

NUMBER	PROVIDE ITEM / WORK
06.01	VERT WD TONGUE & GROOVE SIDING

Design Professional

LICENSED ARCHITECT
JASON A. DONTJE
NO. C-32176
REN. 07-31-21
STATE OF CALIFORNIA

Project Title:

ANDERSEN ELEMENTARY
EXTERIOR CLADDING REPLACEMENT

Revisions:

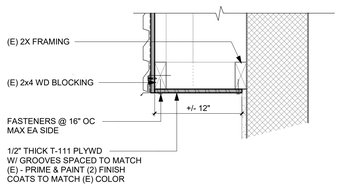
Project #: **CA21000.01** DSA A#: **04-119969**

Date: **04/20/2021**

Sheet Title:

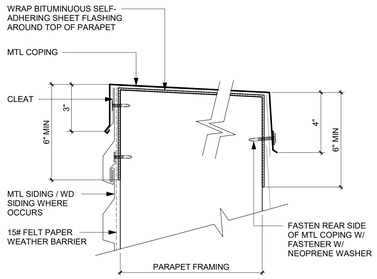
EXTERIOR ELEVATIONS

A-200

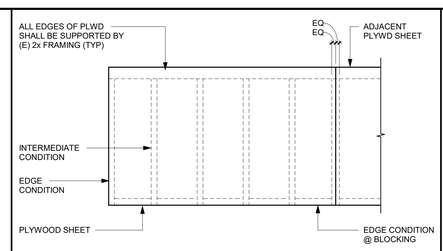


FASTENER NOTE: FASTENERS SHALL BE 316 STAINLESS STL RING SHANK NAILS. FASTENERS SHALL BE STRAIGHT HORIZ & VERT AND EVENLY SPACED FOR MAXIMUM VISUAL UNIFORMITY.

UNIT PRICE 'A' - SOFFIT REPLACEMENT 12
1 1/2" = 1'-0"

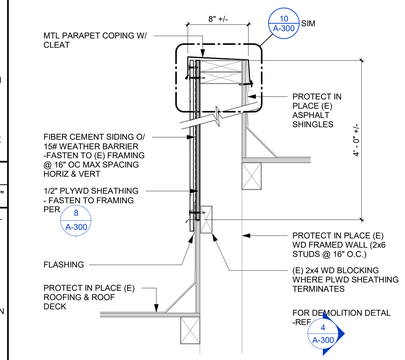


PARAPET COPING DETAIL 10
3" = 1'-0"



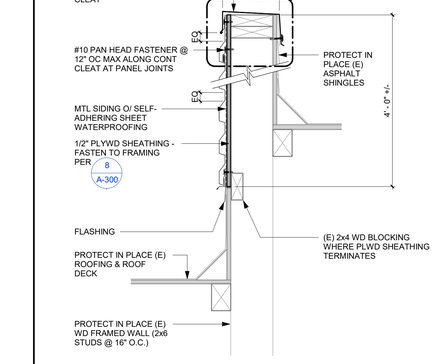
1. EDGE CONDITIONS: FASTEN PLYWD TO (E) 2x FRAMING W/ 10d COMMON NAILS @ 6" O.C.
2. INTERMEDIATE CONDITIONS: FASTEN PLWD TO (E) BLOCKING W/ 10d COMMON NAILS @ 12" OC MAX
3. MINIMUM EDGE DISTANCE FOR NAILS IS 3/8".

PLYWOOD NAILING DIAGRAM @ 2x6 ROOF PARAPET 8
3/4" = 1'-0"

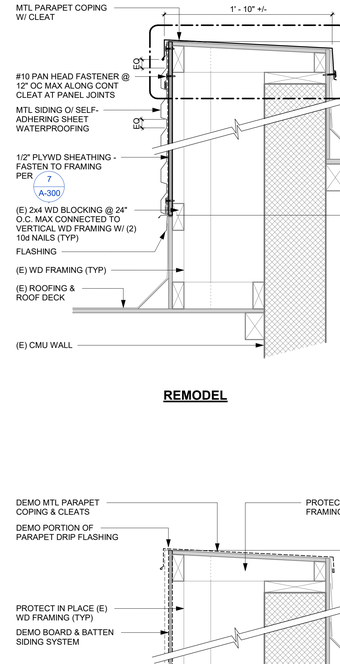


FASTENER NOTE: FASTENERS SHALL BE 316 STAINLESS STL RING SHANK NAILS. FASTENERS SHALL BE STRAIGHT HORIZ & VERT AND EVENLY SPACED FOR MAXIMUM VISUAL UNIFORMITY.

ROOF PARAPET - FIBER CEMENT SIDING DETAIL 6
1 1/2" = 1'-0"

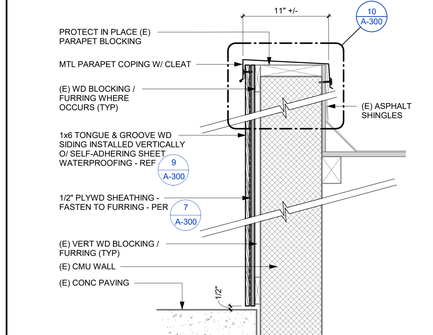


COPING TO (E) WALL DETAIL 11
3" = 1'-0"



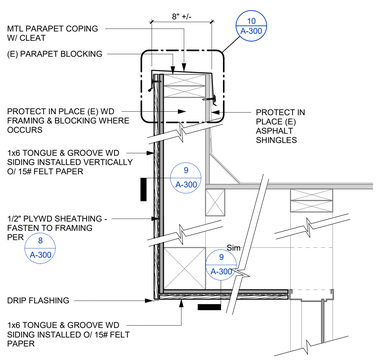
FASTENER NOTE: FASTENERS SHALL BE 316 STAINLESS STL RING SHANK NAILS. FASTENERS SHALL BE STRAIGHT HORIZ & VERT AND EVENLY SPACED FOR MAXIMUM VISUAL UNIFORMITY.

WD SIDING ATTACHMENT 9
3" = 1'-0"



1. EDGE CONDITIONS: FASTEN PLYWD TO (E) 2x FRAMING W/ 10d COMMON NAILS @ 6" O.C.
2. INTERMEDIATE CONDITIONS: FASTEN PLWD TO (E) BLOCKING W/ 10d COMMON NAILS @ 12" OC MAX
3. MINIMUM EDGE DISTANCE FOR NAILS IS 3/8".

TYPICAL PLYWOOD NAILING DIAGRAM 7
3/4" = 1'-0"

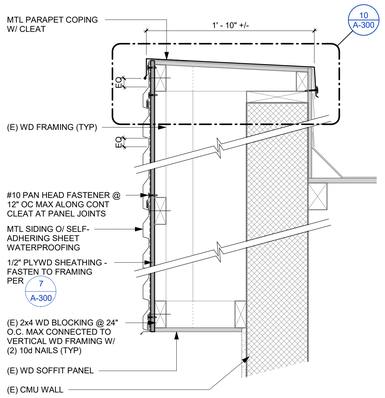


REMODEL

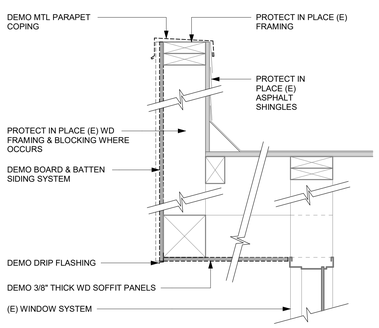
REMODEL

REMODEL

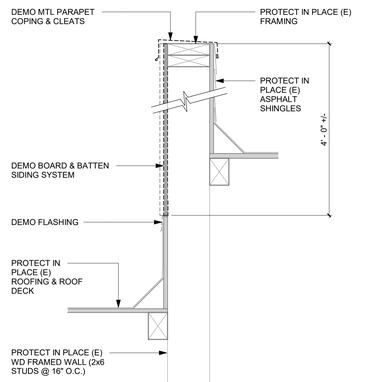
REMODEL



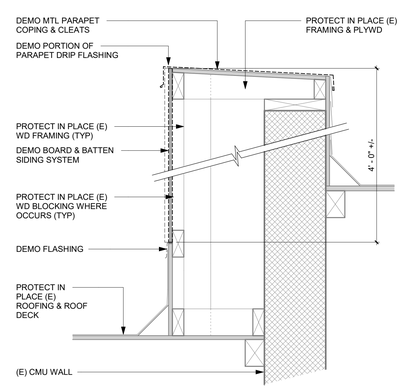
REMODEL



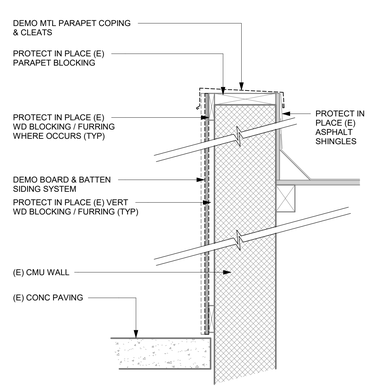
DEMOLITION



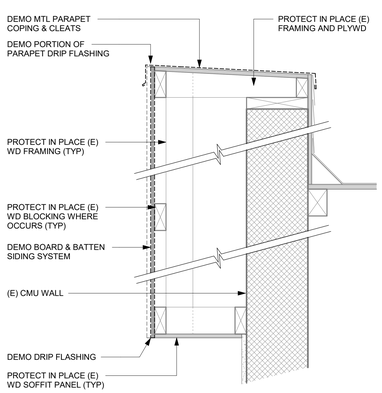
DEMOLITION



DEMOLITION



DEMOLITION



DEMOLITION

FULL-HEIGHT CLADDING DETAILS @ SOFFIT 5
1 1/2" = 1'-0"

ROOF PARAPET SIDING DETAILS 4
1 1/2" = 1'-0"

ROOF PARAPET SIDING @ CMU DETAILS 3
1 1/2" = 1'-0"

FULL-HEIGHT CLADDING DETAILS 2
1 1/2" = 1'-0"

HIGH FASCIA CLADDING DETAILS 1
1 1/2" = 1'-0"

Agency Approval:

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studio+
20520 SW Acacia, Suite 100, Newport Beach, California 92660 | P: 949.315.1993

DETAILS LEGEND

(E) CONSTRUCTION

(N) CONSTRUCTION

DETAILS NOTES

1. CONSTRUCTION INDICATED AS (E) IS EXISTING. ALL OTHER CONSTRUCTION CALLED OUT ON DETAILS IS NEW UNLESS NOTED OTHERWISE.
2. REFERENCE SPECIFICATIONS FOR ADDITIONAL DETAILED INFORMATION.
3. FASTEN PLYWD WITH 10d NAILS INTO (E) WD FRAMING PER REFERENCED PLYWD NAILING DIAGRAM HEREIN.
4. ALL FLASHING / COPING CLEATS SHALL BE DEMOLISHED AND NEW SHALL BE PROVIDED.

Design Professional

LICENSED ARCHITECT JASON A. DEMPSEY NO. C-32176 REN. 07-31-21 STATE OF CALIFORNIA

Project Title:

ANDERSEN ELEMENTARY
EXTERIOR CLADDING REPLACEMENT

Revisions:

Project #: **CA21000.01** DSA A#: **04-119969**

Date: **04/20/2021**

Sheet Title:

DETAILS

A-300

SECTION 01 40 00 – QUALITY REQUIREMENTS

PART 1 -GENERAL

1.01 SECTION INCLUDES

A. Reference Standards.

B. Quality Assurance and Control of Installation.

C. Field Samples.

D. Mock-up

E. Project Inspector and Inspections.

F. Permits and Fees.

G. Verified Reports.

H. Manufacturers' Field Services and Reports.

I. Laboratory Testing Services.

1.02 REFERENCE STANDARDS

A. Conform to reference standards by date of issue current on date of Contract Documents.

B. For products or workmanship specified by Association, Trade or Federal Standards, comply with requirements of standard, except when more rigid requirements are specified or are required by applicable codes.

C. Obtain copies of standards when required by Contract Documents.

D. Maintain copy of standards at jobsite during submittals, planning and progress of the specified Work until Certified Completion.

E. Should specified reference standards conflict with Contract Documents, request clarification from the Architect before proceeding.

F. The contractual relationship of the parties to the Contract shall not be altered from the Contract Documents by mention or inference otherwise in any reference document.

1.03 QUALITY ASSURANCE/CONTROL OF INSTALLATION

A. Monitor quality control over suppliers, products, services, site conditions and workmanship to produce Work of specified quality.

B. Comply fully with manufacturers' instructions including each step in sequence.

C. Should manufacturers' instructions conflict with Contract Documents, request clarification from Architect before proceeding.

D. Perform Work by persons qualified to produce workmanship of specified quality.

E. Where experience minimums for workmen, applicators, companies or manufacturers are required in individual Sections, written certification and documentation substantiating such minimums shall be submitted and approved by the Architect, when requested.

F. Secure products in place with positive anchorage devices designed and sized to withstand stresses, vibration, physical distortion or disfigurement.

1.04 PROJECT INSPECTOR

A. An Inspector, herein referred to as the "Project Inspector", "Job Inspector", or Inspector of Record (I.O.R.) will be employed by the Owner approved by the Architect, Structural Engineer, and by the Department of General Services, Division of State Architect (DGS/DSA).

B. Class of Inspector required for this project in accordance with Title 24, Part I, Section 4-333(b):
Class 3 Inspector

C. The Work of construction in all stages of progress shall be subject to the personal continuous observation of the Project Inspector. He shall have free access to any or all part of the Work at any time. The Contractor shall furnish the Inspector reasonable facilities for obtaining such information as may be necessary to keep him fully informed respecting the progress and manner of the Work and the character of the materials. Inspection of the Work shall not relieve the Contractor from any obligation to fulfill this Contract.

1.05 VERIFIED REPORTS

A. Contractor shall comply with Part 1, Title 24, Sections 4-336 and 4-343 California Code of Regulations and issue verified reports through the Architect as required.

1.06 MANUFACTURERS' FIELD SERVICES AND REPORTS

A. When specified in individual Specification Sections, require material or product suppliers or manufacturers to provide qualified staff personnel to observe site conditions, conditions of surfaces and installation, quality of workmanship, start-up of equipment, test, adjust and balance of equipment and as applicable and to initiate instructions when necessary.

B. Manufacturers' representatives shall report observations and site decisions or instructions given to applicators or installers that are supplemental or contrary to manufacturers' written instructions.

C. Submit report of observation to Architect for review.

1.07 ADDENDA AND CONSTRUCTION CHANGE DIRECTIVES

A. The intent of these drawings and specifications is that the work of the alteration or reconstruction is to be in accordance with Title 24, California Code of Regulations. Should any conditions such as deterioration or non-complying construction be discovered which is not covered by the contract documents wherein the finished work will not comply with Title 24, California Code of Regulations, a Construction Change Directive, or a separate set of plans and specifications, detailing and specifying the required work shall be submitted to and approved by the Division of the State Architect (DSA) before proceeding with the work.

B. In accordance with Part 1, Title 24, Section 4-338, California Code of Regulations, all Addenda and Construction Change Directives shall be approved by Division of the State Architect DSA).

1.08 VARIATIONS WITH LAWS

A. If Contractor his subcontractors or suppliers, or any of their employees ascertain at any time that requirements of this Contract conflict with or are in violation of applicable laws, codes, regulations and ordinances he shall not proceed with Work in question, except at his own risk. Contractor shall be required to remove that Work from site and replace such Work with all complying Work at no additional cost to Owner.

1.09 SELECTION AND PAYMENT-TESTING LABORATORY AND SPECIAL INSPECTORS

A. Owner will employ and pay for services of independent Testing Laboratory and Special Inspectors approved by Architect and DSA to perform inspection and testing in accordance with Part 1, Title 24, Section 4-335, California Code of Regulations and this Section.

B. In accordance with AB1329 dated February 23, 2001, when hazardous materials abatement measures are included in the Work, Owner will employ and pay for the services of an independent testing laboratory, licensed and certified by the State, to conduct clearance and air sampling tests.

C. Offsite fabrication requiring Inspection and Testing: submit the qualifications of Inspectors and laboratory, including proposals for services, to the Owner and Architect for approval of qualifications and costs. Inspectors and laboratories shall conform to the requirements of Part 1 Title 24 Section 4-335.

D. When materials tested fail to meet requirements herein specified, they shall be promptly corrected or removed and replaced, re-inspected and retested in a manner required by the Architect.

E. Employment of testing laboratory shall in no way relieve Contractor of obligation to perform work in accordance with requirements of Contract Documents.

1.10 LABORATORY RESPONSIBILITIES

A. Laboratory shall be licensed to conduct testing and inspection operations in California and shall be approved by DSA. It shall be supervised by a State Licensed Civil Engineer who shall certify and sign all reports.

B. Provide qualified personnel at site. Cooperate with Architect, Project Inspector and Contractor in performance of services.

C. Perform specified inspection, sampling and testing of products in accordance with standards specified herein.

D. Ascertain compliance of materials and mixes with requirements of Contract Documents.

E. Promptly notify Architect, Project Inspector and Contractor by letter of observed irregularities or non-conformance of Work or products.

F. Perform additional inspections and test required by Architect or governing agencies.

G. Immediately upon Testing Laboratory determination of a test failure, the laboratory shall telephone the results of test to Architect. On the same day, laboratory shall send written test results to those named on the distribution list below.

1.11 LABORATORY REPORTS

A. After each inspection and test, promptly submit one copy of laboratory report to the following:
1. Owner

2. Contractor
3. Inspector of Record (IOR)
4. Special Inspectors: Special Inspector's Verified Reports shall be submitted in a timely manner.
5. Architect
6. Structural Engineer
7. Mechanical and Electrical Engineers (Related Tests and Inspections).
8. Division of the State Architect (DSA).

B. Include:
1. Date issued.
2. Project title, Architect's number, DSA Application and File number.
3. Name of inspector.
4. Date and time of sampling and Specifications Section.
5. Identification of product and Specifications Section.
6. Location in the Project.
7. Type of inspection or tests.
8. Date of test and ambient conditions at time of test.
9. Results of tests.
10. Conformance with Contract Documents.
11. Signature by Registered Professional Engineer licensed in California.
12. Statement that tests were conducted in accordance with Parts 1 and 2, Title 24, California Code of Regulations.

C. Test reports shall include tests made, whether such tests indicate that the material performed satisfactorily or not. Samples taken but not tested shall be reported. Reports shall show that the materials were sampled and tested in accordance with the requirements of the approved Specifications. Reports shall show the specified design strength and shall state whether or not the materials tested comply with requirements. Report special sampling operations where required.

D. Submit a report verifying that tests and inspections herein specified and otherwise required have been completed and material and workmanship complies with the Contract Documents. Such verification reports shall be submitted at the completion ofthe Project and at any time the Project is suspended. Parties to receive such reports are the same as listed above.

E. When requested by Architect, provide interpretation of test results.

1.12 LIMITS ON TESTING LABORATORY AUTHORITY

A. Laboratory may not release, revoke, alter or enlarge on requirements of Contract Documents.

B. Laboratory may not approve or accept any portion of the Work.

C. Laboratory may not assume any duties of Contractor.

D. Laboratory has no authority to stop the Work.

E. Laboratory shall not interpret code in relation to the design of the building.

1.13 CONTRACTOR RESPONSIBILITIES

A. Deliver to laboratory at designated location, adequate samples of materials proposed to be used which require testing. Selection of materials required to be tested shall be by the Lab or Owner's Representative and not by the Contractor.

B. Cooperate with laboratory personnel, Owner's Representative, Project Inspector and the Architect, and provide access to the Work including weekends and after work hours and to manufacturer's facilities.

C. Provide incidental labor materials and facilities to provide at all times, safe access to Work to be tested, to obtain and handle samples at the site or at source of products to be tested, to facilitate tests and inspections, storage and curing of test samples.

D. Notify Architect, Project Inspector and laboratory 24 hours prior to expected time for operations requiring inspection and testing services. Contractor shall pay for costs incurred if testing or inspections are cancelled and are required to be rescheduled due to the Contractor's failure to notify the Project Inspector in advance as required. Also, notify Owner in advance of manufacturer of materials to allow testing at source of supply.

E. In accordance with CBC-17A, Section 1706A, Contractor shall execute and submit a Statement of Responsibility regarding special inspections and testing required for principle wind- and seismic-load bearing systems to the Inspector of Record and the Owner.

F. The Owner, Project Inspector or the Architect shall have the right to reject materials and workmanship that are defective or to require their correction. Rejected workmanship shall be satisfactorily corrected and rejected materials shall be removed from the premises without cost to the Owner. If the Contractor fails to correct such rejected Work within a reasonable time, fixed by written notice, the Owner will correct same and charge the expense to the Contractor by Change Order.

G. Should it be considered necessary or advisable by the Owner at any time before date of completion of the entire Work to make an examination of Work already completed by removing or tearing out the same, the Contractor shall on request promptly furnish all necessary facilities, labor and materials. If such Work is found to be defective in any respect due to fault of the Contractor or his subcontractor, all extra expenses shall be charged to the Contractor by Change Order. If however such Work is found to meet the requirements of the Contract Documents, the additional cost of labor and materials involved in the examination and for replacement costs shall be allowed to the Contractor by Change Order.

H. When changes of construction schedule are necessary during construction, coordinate such changes with the Testing Laboratory as required.

I. When the Testing Laboratory is ready to test according to the established schedule, but is prevented from testing or taking specimens due to incompleteness of the Work, extra charges for testing attributable to the delay shall be charged to the Contractor by Change Order.

J. Inspecting and testing performed exclusively for the Contractor's convenience shall be the sole responsibility of the Contractor.

K. Selection of materials to be tested shall be made by the Testing Laboratory or the Project Inspector and not by the Contractor.

L. Any material shipped by the contractor from the source of supply prior to having satisfactorily passed such testing and inspection or prior to the receipt of notice from said representative that such testing and inspection will not be required, shall not be incorporated in the Work.

END OF SECTION

Agency Approval:

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-119969 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/20/2021

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STATE OF CALIFORNIA

Project Title:

ANDERSEN ELEMENTARY
EXTERIOR CLADDING REPLACEMENT

Revisions:

Project #: **CA21000.01** DSA A#: **04-119969**

Date: **04/20/2021**

Sheet Title:

SPECIFICATIONS

A-400

SECTION 06 20 13 - EXTERIOR FINISH CARPENTRY

PART 1 - GENERAL

1.1 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference at Project site.

1.2 ACTION SUBMITTALS

A. Product Data: For each type of process and factory-fabricated product. Indicate component materials, dimensions, profiles, textures, and colors and include construction and application details.

B. Samples: For each exposed product and for each color and texture specified.

C. Samples for Verification:

1. For each species and cut of lumber, with half of exposed surface finished; 50 sq. in. (300 sq. cm) for lumber.

1.3 INFORMATIONAL SUBMITTALS

A. Compliance Certificates:

1. For lumber that is not marked with grade stamp.

B. Sample Warranties: For manufacturer's warranties.

1.4 QUALITY ASSURANCE

A. Manufacturer Qualifications: Not less than 5 years experience harvesting and milling forest products.

B. Installer Qualifications: Not less than 2 years experience installing similar products.

1.5 MOCKUPS

A. Build mockups to verify selections made under Sample submittals, to demonstrate aesthetic effects, to set quality standards for materials and execution, and to set quality standards for fabrication and installation.

1. Build mockups for siding.

a. Size: 72 inches (1829 mm) long by 72 inches (1829 mm) wide.

2. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Owner specifically approves such deviations by Change Order.
3. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Stack lumber flat with spacers between each bundle to provide air circulation.

1. Protect materials from weather by covering with waterproof sheeting, securely anchored.
2. Provide for air circulation around stacks and under coverings.

1.7 FIELD CONDITIONS

A. Weather Limitations: Proceed with installation only when existing and forecast weather conditions permit work to be performed and at least one coat of specified finish can be applied without exposure to rain, snow, or dampness.

B. Do not install finish carpentry materials that are wet, moisture damaged, or mold damaged.

1. Indications that materials are wet or moisture damaged include, but are not limited to, discoloration, sagging, or irregular shape.
2. Indications that materials are mold damaged include, but are not limited to, fuzzy or splotchy surface contamination and discoloration.

PART 2 - PRODUCTS

2.1 MATERIALS, GENERAL

A. Lumber: DOC PS 20 and applicable rules of grading agencies indicated. If no grading agency is indicated, comply with applicable rules of any rules-writing agency certified by the American Lumber Standard Committee's (ALSC) Board of Review. Grade lumber by an agency certified by the ALSC's Board of Review to inspect and grade lumber under the rules indicated.

1. Factory mark each piece of lumber with grade stamp of inspection agency, indicating grade, species, moisture content at time of surfacing, and mill.
2. For exposed lumber, mark grade stamp on end or back of each piece, or omit grade stamp and provide certificates of grade compliance issued by inspection agency.

2.2 LUMBER SIDING

A. Provide kiln-dried lumber siding complying with DOC PS 20.

B. Species and Grade: Western red cedar; NLGA, WCLIB, or WWPA Grade A.

C. Pattern: V-edge, smooth-faced tongue and groove, actual face width (coverage) and thickness of 5-1/8 by 23/32 inch (130 by 18 mm).

2.3 MISCELLANEOUS MATERIALS

A. Fasteners for Exterior Finish Carpentry: Provide nails or screws, in sufficient length to penetrate full depth into wood substrate.

1. For face-fastening siding, provide hot-dip galvanized-steel ringed-shank siding nails.

B. Flashing: Comply with requirements of 2019 CBC 1404.4.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.

1. Verify weather-resistive barriers and flexible flashing have been installed in compliance with 2019 CBC 1403.1 and 1404.4.

B. Examine finish carpentry materials before installation. Reject materials that are wet, moisture damaged, and mold damaged.

C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Clean substrates of projections and substances detrimental to application.

3.3 INSTALLATION, GENERAL

A. Do not use materials that are unsound, warped, improperly treated or finished, inadequately seasoned, or too small to fabricate with proper jointing arrangements.

B. Install exterior finish carpentry level, plumb, true, and aligned with adjacent materials.

1. Use concealed shims where necessary for alignment.
2. Scribe and cut exterior finish carpentry to fit adjoining work.
3. Refinish and seal cuts as recommended by manufacturer.
4. Install to tolerance of 1/8 inch in 96 inches (3 mm in 2438 mm) for level and plumb. Install adjoining exterior finish carpentry with 1/32 inch (0.8 mm) maximum offset for flush installation and 1/16 inch (1.5 mm) maximum offset for reveal installation.
5. Coordinate exterior finish carpentry with materials and systems in or adjacent to it.
6. Provide cutouts for mechanical and electrical items that penetrate exterior finish carpentry.

3.4 INSTALLATION OF SIDING

A. Install siding to comply with manufacturer's written instructions.

B. Flashing: Install metal flashing as indicated on Drawings and as recommended by siding manufacturer.

C. Finish: Apply finish within two weeks of installation.

3.5 ADJUSTING

A. Replace exterior finish carpentry that is damaged or does not comply with requirements.

1. Exterior finish carpentry may be repaired or refinished if work complies with requirements and shows no evidence of repair or refinishing.

B. Adjust joinery for uniform appearance.

3.6 CLEANING

A. Clean exterior finish carpentry on exposed and semiexposed surfaces.

3.7 PROTECTION

A. Protect installed products from damage from weather and other causes during construction.

B. Remove and replace finish carpentry materials that are wet, moisture damaged, and mold damaged.

1. Indications that materials are wet or moisture damaged include, but are not limited to, discoloration, sagging, or irregular shape.
2. Indications that materials are mold damaged include, but are not limited to, fuzzy or splotchy surface contamination and discoloration.

END OF SECTION

SECTION 07 46 46 - FIBER-CEMENT SIDING

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes fiber-cement siding and trim.

1.2 COORDINATION

A. Coordinate siding installation with flashings and other adjoining construction to ensure proper sequencing.

1.3 ACTION SUBMITTALS

A. Product Data: For each type of product. Include the following:

1. Construction details, material descriptions, dimensions of individual components and profiles, and finishes.
2. Preparation instructions and recommendations.
3. Storage and handling requirements and recommendations.
4. Installation methods.

B. Shop Drawings: Provide detailed drawings of atypical non-standard applications of cementitious siding materials which are outside the scope of the standard details and specifications provided by the manufacturer.

C. Samples for Verification: For each type, color, texture, and pattern required.

1. 12 inch (300 mm) long-by-actual-width Sample of siding.
2. 12 inch (300 mm) long-by-actual-width Samples of trim and accessories.

1.4 INFORMATIONAL SUBMITTALS

A. Product Certificates: For each type of fiber-cement siding and trim.

B. Product Test Reports: Based on evaluation of comprehensive tests performed by a qualified testing agency, for fiber-cement siding.

C. Research/Evaluation Reports: For each type of fiber-cement siding required, from ICC-ES.Sample Warranty: For special warranty.

1.5 CLOSEOUT SUBMITTALS

A. Maintenance Data: For each type of product, including related accessories, to include in maintenance manuals.

1.6 QUALITY ASSURANCE

A. Installer Qualifications: Not less than two years experience with installation of similar products.

1.7 DELIVERY, STORAGE, AND HANDLING

A. Deliver and store packaged materials in original containers with labels intact until time of use.

B. Store materials on elevated platforms, under cover, and in a dry location.

C. Store siding on edge or lay flat on a smooth level surface. Protect edges and corners from chipping. Store sheets under cover and keep dry prior to installing.

D. Store and dispose of solvent-based materials, and materials used with solvent-based materials, in accordance with requirements of local authorities having jurisdiction.

1.8 PROJECT CONDITIONS

A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

1.9 WARRANTY

A. Special Warranty: Manufacturer agrees to repair or replace products that fail in materials or workmanship within specified warranty period.

1. Failures include, but are not limited to, the following:

a. Structural failures including cracking and deforming.
b. Deterioration of materials beyond normal weathering.

2. Warranty Period:

a. HardiPanel HZ10 Vertical Siding: 30 years from date of Substantial Completion.
b. HardieTrim HZ10 Boards: 15 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Source Limitations: Obtain products, including related accessories, from single source from single manufacturer.

2.2 FIBER-CEMENT SIDING

A. General: ASTM C1186, Type A, Grade II, fiber-cement board, noncombustible when tested according to ASTM E136; with a flame-spread index of 25 or less when tested according to ASTM E84.

1. Basis-of-Design Product: Subject to compliance with requirements, provide James Hardie Building Products, Inc.; HardiePanel HZ10 Vertical Siding, Cedarmill vertical siding, or a comparable product by another manufacturer.

B. Labeling: Provide fiber-cement siding that is tested and labeled according to ASTM C1186 by a qualified testing agency acceptable to authorities having jurisdiction.

C. Nominal Thickness: Not less than 5/16 inch (8 mm).

D. Vertical Pattern: 48 inch (1200 mm) wide sheets with wood-grain texture and grooves 8 inches (203 mm) o.c.

E. Factory Priming: Manufacturer's standard acrylic primer.

2.3 FIBER-CEMENT TRIM

A. General: ASTM C1186, Type A, Grade II, fiber-cement board, noncombustible when tested according to ASTM E136; with a flame-spread index of 25 or less when tested according to ASTM E84.

1. Basis-of-Design Product: Subject to compliance with requirements, provide James Hardie Building Products, Inc.; HardieTrim HZ10 Boards, or a comparable product by another manufacturer.

B. Product: 4/4 Boards, 3-1/2 inch (89 mm) width.

C. Texture: Wood-grain.

D. Length: 144 inches (3658 mm).

E. Thickness: 3/4 inch (19 mm).

F. Factory Priming: Manufacturer's standard acrylic primer.

2.4 ACCESSORIES

A. Siding Accessories, General: Provide starter strips, edge trim, outside and inside corner caps, and other items as recommended by siding manufacturer for building configuration.

1. Provide accessories matching color and texture of adjacent siding unless otherwise indicated.

B. Fasteners:

1. For fastening to wood, use siding nails of sufficient length to penetrate not less than 1 inch (25 mm) into substrate.

a. Not less than 0.091 inch (2.3 mm) shank by 0.221 inch (5.6 mm) head by 1-1/2 inches (38 mm).

2. For fastening fiber cement, use stainless-steel fasteners.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates for compliance with requirements for installation tolerances and other conditions affecting performance of fiber-cement siding and trim and related accessories.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Clean substrates of projections and substances detrimental to application.

3.3 INSTALLATION

A. General: Comply with manufacturer's written installation instructions applicable to products and applications indicated unless more stringent requirements apply.

1. Do not install damaged components.
2. Install fasteners not more than 24 inches (600 mm) o.c.
3. Install a water-resistive barrier is required in accordance with local building code requirements.
4. The water-resistive barrier must be appropriately installed with penetration and junction flashing in accordance with local building code requirements.
5. Use HardieWrap Seam Tape and joint and laps.
6. Install and HardieWrap flashing, HardieWrap Flex Flashing.
7. Install water-resistive barriers and claddings to dry surfaces.
8. Repair any punctures or tears in the water-resistive barrier prior to the installation of the siding.

3.4 ADJUSTING AND CLEANING

A. Remove damaged, improperly installed, or otherwise defective materials and replace with new materials complying with specified requirements.

B. Clean finished surfaces according to manufacturer's written instructions and maintain in a clean condition during construction.

END OF SECTION

Agency Approval:

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-119969 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/20/2021

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Design Professional

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Project Title:

ANDERSEN ELEMENTARY
EXTERIOR CLADDING REPLACEMENT

Revisions:

Project #: **CA21000.01** DSA A#: **04-119969**

Date: **04/20/2021**

Sheet Title:

SPECIFICATIONS

A-401

SECTION 06 10 00 - ROUGH CARPENTRY

PART 1 - GENERAL

1.01 SYSTEM DESCRIPTION

A. Regulatory Requirements:

1. Work of this Section shall comply with CBC Chapter 23A.

1.03 QUALITY ASSURANCE

A. Comply with the following as a minimum requirement:

1. Redwood framing lumber shall be graded in accordance with Standard Specifications for Grades of California Redwood Lumber of the Redwood Inspection Service.

2. Douglas fir, larch or hemlock framing lumber shall be graded in accordance with the Standard Grading Rules of the West Coast Lumber Inspection Bureau (WCLIB) or the Western Lumber Grading Rules of the Western Wood Products Association (WWPA).

3. Plywood shall conform to requirements of Product Standard PS 1-95, and shall be grade marked by a recognized grading agency (APA and PTL).

B. Lumber shall bear official grade mark of the association under whose rules it was graded or official grade mark of another recognized grading agency.

C. Framing members 2 inches in thickness and larger shall be air-dried to moisture content not to exceed 19 percent before installation.

D. Each piece of preservative treated lumber shall be identified by the Quality Mark of an approved inspection agency in accordance with CBC Chapter 23A; refer to Section 01420: Testing and Inspection.

1.04 STORAGE, HANDLING AND PROTECTION

A. The materials supplied as part of the Work of this section shall be protected from exposure to inclement weather before being covered by other Work.

PART 2 - PRODUCTS

2.01 MATERIALS

A. Lumber: Lumber shall be of following species and grades:

INSTALLATION	SPECIES	GRADE
Wall Sheathing	Douglas fir and larch	Construction Board WCLIB; WWPA
Other lumber (2 to 4 thick, 2" to 4" wide)	Douglas fir and larch	No. 2 WCLIB; WWPA
Framing lumber (2" to 4" thick, 5" and wider).	Douglas fir and Larch	No. 2 WCLIB; WWPA
Miscellaneous nailing strips and blocks in contact with concrete or masonry.	Douglas fir and Larch treated	No. 2 WCLIB; WWPA.

B. Plywood: Plywood shall be exterior type plywood.

C. Preservative Treated Wood:

1. Wood and plywood specified; as treated wood shall be pressure treated wood in accordance with CBC requirements.

2. Seasoning: Treated lumber shall be air seasoned after treatment, for a minimum of 2 weeks before installation. Moisture content shall be 15 percent maximum.

3. Creosote or arsenic is not permitted for treating wood.

4. When treated wood member have been notched, dapped, drilled, or cut, such newly cut surfaces shall be painted with a heavy coat of the same preservative material originally provided for treatment of wood member.

E. Fire Retardant Protection: Wood and plywood specified as fire retardant protected wood shall be treated by approved methods and materials and shall be dried following treatment to a maximum moisture content as follows:

1. Solid sawn lumber 2 inches in thickness or less: 19 percent.

2. Plywood: 15 percent.

F. Adhesive: Tec, Inc. Sturdi-Bond TA-175, or Top Industrial Inc., Rainbuster 345, elastomeric adhesive conforming to ASTM D 3498 and APA-AFG-01.

PART 3 - EXECUTION

3.01 FASTENINGS

A. Nails and Spikes:

1. Furnish only common wire nails or spikes whenever indicated, specified or required.

2. Whenever necessary to prevent splitting, holes shall be pre-drilled for nails and spikes.

3. Nails in plywood shall not be overdriven.

4. Nailing shall comply with 2019 CBC 2303.6.

5. Machine Applied Nailing: Use of machine nailing is subject to a satisfactory Project site demonstration for each Project and approval by the Architect or structural engineer retained by the Architect as an Architect Consultant and DSA. Installation is subject to continued satisfactory performance. Machine nailing is not permitted for 5/16 inch plywood. Do not permit nail heads to penetrate outer ply. Maintain minimum allowable edge distances when installing nails.

B. Lag Screws:

1. When installing lag screws in a wood member, pre-drill hole as required by the CBC.

2. Lag screws, which bear on wood, shall be fitted with standard steel plate washers under head. Lag screws shall be screwed and not driven into place.

C. Bolts:

1. Lumber and timber to be fastened together with bolts shall be clamped together with holes for bolts bored true to line.

2. Bolts shall be fitted with steel plates or standard cut washers under heads and nuts. Bolts shall be tightened when installed and again before completion of the Work of this section.

D. Wood Screws: When installing wood screws, pre-drill holes as required by the CBC.

E. Metal Framing Devices: Framing anchors, joist hangers, ties, and other mechanical fastenings shall be galvanized or furnished with a rust inhibitive coating. Nails and fastenings shall be of the type recommended by manufacturer.

F. Powder Driven Fasteners:

1. Loads shall not exceed 75 pounds unless indicated on the Drawings or when reviewed by the Architect.

2. The operator, tool, and fastener shall perform the following as observed by the Inspector of Record.

a. Observe installation of first 10 fasteners.

b. Test the first 10 fasteners by performing a pullout test. Load shall be at least twice the design load, or 150 pounds, whichever is greater.

c. Random testing:

1) Load less than 75 lb. - approximately 1 in 10 pins.

2) Load 75 lb. or greater - 1/2 of the pins.

3. Failure of any test will result in testing of all installed pins.

4. Nail heads shall not break the outer skin of sheathing.

5. Non-compliant pins shall be replaced.

END OF SECTION

SECTION 07 13 00 - SELF-ADHERING SHEET WATERPROOFING

PART 1 GENERAL

1.1 REFERENCES

A. ASTM International (ASTM):
1. ASTM C836 - Standard Specification for High Solids Content, Cold Liquid Applied Elastomeric Waterproofing Membrane for Use with Separate Wearing Course.
2. ASTM D412 - Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers - Tension.
3. ASTM D570 - Standard Test Method for Water Absorption of Plastics.
4. ASTM D882 - Standard Test Methods for Tensile Properties of Thin Plastic Sheeting.
5. ASTM D903 - Standard Test Method for Peel or Stripping Strength of Adhesive Bonds.
6. ASTM D1876 - Standard Test Method for Peel Release of Adhesives (T-Peel).
7. ASTM D1970 - Standard Specification for Self-Adhering Polymer Modified Bituminous Sheet Materials Used as Steep Roofing Underlayment for Ice Dam Protection.
8. ASTM D3767 - Standard Practice for Rubber - Measurement of Dimensions.
9. ASTM D4491 - Test Methods for Water Permeability of Geotextiles by Permittivity.
10. ASTM D4833 - Test Method for Index Puncture Resistance of Geotextiles, Geomembranes, and Related Products.
11. ASTM E96 - Standard Test Method for Water Vapor Transmission of Materials.

1.2 SUBMITTALS

A. Product Data: Manufacturer's data sheets on each product to be used, including:
1. Preparation instructions and recommendations.
2. Storage and handling requirements and recommendations.
3. Installation methods.

B. Waterproofing Manufacturer's Sample Warranty

C. Material Certificates: Certification that waterproofing system and components, drainage and protection materials comply with specified performance characteristics and physical requirements and are supplied by single-source manufacturer.

D. Contractor Certificate: Approved Applicator status with waterproofing material Manufacturer.

1.3 QUALITY ASSURANCE

A. Installer Qualifications:
1. Have minimum three years of experience in type of work required by this section.
2. Comply with manufacturer's warranty requirements.
3. Be approved applicator as determined by waterproofing/drainage system manufacturer.

B. Manufacturer Qualifications:
1. Minimum of five years of experience in manufacturing of prefabricated drainage composite systems.
2. Capable of providing product and technical support representation during construction, approving an acceptable applicator and suggesting appropriate installation methods.
3.

1.4 WARRANTY

A. Waterproofing System Warranty: Waterproofing Manufacturer to provide sample of warranty, including waterproofing system requirements. Issuance of Manufacturer's Waterproofing Warranty requires the following:
1. Warranty Period: five years.
2. Warranty Period: ten years.
3. Warranty Period: fifteen years.
4. Waterproofing System products and drainage composite products provided by single manufacturer.
5. Installation of waterproofing products, prefabricated drainage composite and all appropriate system accessories are installed by a Manufacturer's Approved Applicator in full accordance with manufacturer's recommendations, installation instructions, specifications and details.

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. Acceptable Manufacturer: MAPEI, which is located at: USA 1144 E. Newport Ctr. Dr.; Deerfield Beach, FL 33442; Toll Free Tel: 800-992-6273 -Floor Installation; Email:request info (jwhitfield@mapei.com); Web:https://www.mapei.com/us/en-us/home-page|https://www.mapei.com/ca/en-ca/home

B. Comparable Products: Subject to compliance with requirements, manufacturers offering products that meet the aesthetic and performance criteria indicated herein may be incorporated into the Work upon pre-approval by the Architect prior to bid closing.

2.2 SELF-ADHERING SHEET WATERPROOFING MEMBRANE

A. MAPEI Mapethene HT Membrane: 3 feet-0 inches x 66 feet-8 inches (0.91 x 20.3 m) roll is a 60 mil (1.5 mm) thick self-adhering sheet membrane consisting of 56 mils (1.4 mm) of rubberized-asphalt laminated to a 4 mil (0.1 mm) cross-laminated polyethylene film. Mapethene HT membrane is suitable for installations where the ambient temperature is 40 degree F (4 degree C) or above.

2.3 SHEET MEMBRANE

A. Performance Properties:
1. Thickness - ASTM D3767: 60 mils.
2. Tensile strength, membrane - ASTM D412: 325 psi (2 241 kpa).
3. Tensile strength, film - ASTM D882: 5,000 psi (34 474 kpa).
4. Elongation - ASTM D412: 300% minimum.
5. Permeance - ASTM E96: < 0.05 perms.
6. Low-temperature flexibility - ASTM D1970: Unaffected at -25 degree F (-32 degree C).
7. Crack cycling - ASTM C836: Unaffected at -25 degree F (-32 degree C).
8. Peel strength - ASTM D903: > 9 lbs./in. (1,0168 N/m).
9. Lap adhesion - ASTM D1876: > 9 lbs./in. (1,0168 N/m).
10. Puncture resistance - ASTM E154: > 50 lbs. (22.7 kg) minimum.
11. Water absorption - ASTM D570: 0.1% maximum.
12. Hydrostatic head - ASTM D5385: 231 ft. (70.4 m) of water.
13. Soil burial at 16 weeks - GSA-PBS 07121: No effect.

2.4 WATERPROOFING ACCESSORIES

A. Surface Primer/ Contact Adhesive: MAPEI Mapebond 700, 710, 720, or 740.

B. Sealants: MAPEI Mapeflex P1. One-component, elastomeric, moisture cured, polyurethane sealant and adhesive.

C. Flexible Waterproofing Tape for Movement Joints: MAPEI Mapeband TPE 170 and 325. Highly durable and flexible band tape used to waterproof expansion and other dynamic joints subject to movement of up to 2 inches (5 cm) for Mapeband TPE 170 and up to 4 inches (10 cm) for Mapeband TPE 325. Anchor with MAPEI Planibond AE high-strength, two-part, non-sag, epoxy anchoring gel.

PART 3 EXECUTION

3.1 SUBSTRATE INSPECTION AND CONDITIONS

A. Examine conditions of substrates and other conditions affecting work of this section with waterproofing Installer, General Contractor and Owner's Independent Inspector present. Notify General Contractor, in writing, of defects in substrate preventing installation of waterproofing. Do not proceed with work until defects in substrate are corrected and acceptable for waterproofing installation and comply with manufacturer's recommendations.

B. Substrates to receive waterproofing shall be clean, dry and free of voids, protrusions and surface irregularities. Prepare substrate surfaces to accept waterproofing system per requirements of membrane Manufacturer.

C. Apply waterproof membrane only in dry weather, when ambient and substrate temperatures are above 40 degree F (4 degree C).

3.2 PREPARATION

A. Remove contaminants such as dirt, debris, oil, grease, wax, cement laitance, or other foreign matter which will impair or negatively affect performance of waterproofing and drainage system.

B. Protect adjacent work areas and finish surfaces not receiving waterproofing from damage or contamination from waterproofing products spillage and overspray during installation operations.

C. Protect membrane from direct sunlight immediately after installation.

3.3 GENERAL INSTALLATION GUIDELINES

A. Comply with contract documents and manufacturer's product data, including product application and installation instructions. Self-adhering waterproof membrane can be applied to concrete, metal, wood, insulated wall systems and masonry surfaces.

B. Recoat primed areas not waterproofed same day. Re-prime if contaminated by dust or construction debris. Mask and protect adjoining exposed finish surfaces to protect those surfaces from excessive application of primer.

C. On vertical surfaces, immediately hand-rub the membrane firmly, removing bubbles and wrinkles, then use roller with heavy pressure over complete surface to assure positive adhesion.

D. Seal membrane installation edges at the end of each day with troweled bead of sealant or mastic.

E. Apply protection board or drainage composite over work installed each day.

F. Inspect membrane before covering with protection board or drainage composite. Repair as necessary. Cover tears and inadequate overlaps with membrane. Seal edges of patches with pointing mastic or sealant.

G. Protect membrane on vertical and horizontal applications with immediate application of drainage composite sheet or protection board.

H. Warn personnel against breathing of vapors and contact with skin and eyes; wear appropriate protective clothing and respiratory equipment.

I. Fish mouths and severe wrinkles shall be slit, flaps overlapped and repaired.

J. Apply sheet membrane to prepared surface vertical applications starting at the low point and working to high point in overlapping shingling technique.

3.4 PRIMING / CONTACT ADHESIVE

A. Prepare concrete, metal, masonry, wood and sheathing substrates with primer/contact adhesive. Apply primer/contact adhesive at rate recommended by Manufacturer.

B. Decrease coverage rate (increase application thickness) and/or apply multiple coats to achieve adequate coverage and tack when sheet membranes and flashings are installed over porous and textured substrates such as CMUs, wood and gypsum sheathing with glass-mat facers.

C. Allow primer/contact adhesives to dry completely before applying additional coats and installing membrane. Contact adhesive is dry when tacky and does not transfer.

D. Perform multiple random adhesion tests to verify proper application of contact adhesive.

3.5 WOOD SUBSTRATES

A. Verify wood substrates are solid and sound without rot and are secured.

B. All joints and fasteners shall be flush to create a smooth surface.

C. Prime with contact adhesive and install self-adhered waterproof sheet membrane.

3.6 LAP JOINTS

A. Overlap waterproofing membrane minimum 5 inches (12.7 cm) on end laps and 2-1/2 inches (6.35 cm) on side laps.

B. Apply a bead of sealant or mastic measuring 1/8 inch (3 mm) thick and 1 inch (2.5 cm) wide over all terminations and seams within 12 inches (30 cm) of the corner.

C. Do not use mastic underneath the waterproofing membrane.

3.7 PENETRATIONS

A. Cut self-adhered waterproofing sheet membrane to closely fit around penetrations.

B. Install membrane over penetrations.

C. Apply sealant or mastic with a 3/4 inch (1.9 cm) cant bead extending 3 inches (7.6 cm) onto the penetration and at least 3 inches (7.6 cm) onto the membrane.

END OF SECTION

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Project Title:

ANDERSEN ELEMENTARY
EXTERIOR CLADDING REPLACEMENT

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SPECIFICATIONS

A-402

SECTION 07 42 00 - FORMED METAL WALL PANELS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Metal wall panels.

2. Coping.

1.2 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference at Project site.

1.3 ACTION SUBMITTALS

A. Product Data: For each type of product indicated. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes for each type of wall panel and accessory.

B. Shop Drawings: Show fabrication and installation layouts of metal wall panels; details of edge conditions, side-seam and endlap joints, panel profiles, corners, anchorages, trim, flashings, closures, and accessories; and special details specific to project. Distinguish between factory- and field-assembled work.

C. Samples for Initial Selection: For each type of metal wall and soffit panel indicated with factory-applied color finishes.

1. Include similar Samples of trim and accessories involving color selection.

D. Samples for Verification: For each type of exposed finish required, prepared on Samples of size indicated below.

1. Metal Panels: 12 inches (305 mm) long by actual panel width. Include fasteners, closures, and other metal wall panel accessories.

2. Trim and Closures: 12 inches (305 mm) long. Include fasteners and other exposed accessories.

3. Accessories: 12-inch- (305-mm-) long Samples for each type of accessory.

1.4 INFORMATIONAL SUBMITTALS

A. Qualification Data: For manufacturer, Installer, and manufacturer's technical representative.

1. Submit Installer qualifications in the form of an original letter on manufacturer's letterhead signed by authorized manufacturer representative.

B. Material Certificates: For thermal insulation, from manufacturer.

C. Product Test Reports: Based on evaluation of current comprehensive tests performed by a qualified independent testing agency, for each product. Indicate compliance with requirements in Performance Requirements Article:

D. Field quality-control reports.

E. Warranties: Sample of special warranties.

1.5 CLOSEOUT SUBMITTALS

A. Maintenance Data: For metal wall panels to include in maintenance manuals.

1.6 QUALITY ASSURANCE

A. Manufacturer Qualifications: A manufacturer of plant-fabricated metal wall panel systems listed in this Section and meeting performance requirements, with a minimum of five years' experience providing metal wall panel systems for projects of similar type and scope, offering warranty, and technical inspection specified.

B. Installer Qualifications: An employer of workers trained and certified by manufacturer, including a full-time on-site supervisor with a minimum of five years' experience installing similar work, able to communicate verbally with Contractor, Architect, and employees, and qualified by the manufacturer to furnish warranty of type specified.

C. Manufacturer's Technical Representative Qualifications: An authorized full-time employee representative of manufacturer experienced in the installation and maintenance of the specified panel system and qualified to determine Installer's compliance with the requirements of this Project.

D. Source Limitations: Obtain metal panels and accessories from a single source supplied or approved by metal panel manufacturer.

1.7 DELIVERY, STORAGE, AND HANDLING

A. Deliver components, sheets, metal panels, and other manufactured items so as not to be damaged or deformed. Package metal wall panels for protection during transportation and handling.

B. Unload, store, and erect metal panels in a manner to prevent bending, warping, twisting, and surface damage.

C. Stack metal panels horizontally on platforms or pallets, covered with suitable weathertight and ventilated covering. Store metal panels to ensure dryness, with positive slope for drainage of water. Do not store metal panels in contact with other materials that might cause staining, denting, or other surface damage.

D. Retain strippable protective covering on metal panel for period of metal wall panel installation.

E. Complete installation and concealment of plastic materials as rapidly as possible in each area of construction.

1.8 PROJECT CONDITIONS

A. Weather Limitations: Proceed with installation only when existing and forecasted weather conditions permit assembly of metal wall panels to be performed according to manufacturers' written instructions and warranty requirements.

B. Field Measurements: Verify locations of structural members and wall opening dimensions by field measurements before metal panel fabrication and indicate measurements on Shop Drawings.

1.9 WARRANTY

A. Installer Warranty: Installer's warranty signed by Installer, as follows.

1. Form of Warranty: Form acceptable to Roofing Manufacturer and Owner.

2. Scope of Warranty: Work of this Section.

3. Warranty Period: 2 years from date of completion.

B. Metal Finishes: Written warranty in which Manufacturer agrees to repair finish or replace factory-finished components that show evidence of deterioration of factory-applied finishes under normal atmospheric conditions within specified warranty period.

1. Color fading, ASTM D 2244: Greater than 5 Hunter units.

2. Chalking, ASTM D 4214: Greater than a No. 8 rating.

3. Finish breakdown: Cracking, checking, peeling, or adhesive failure.

4. Finish Warranty Period: 20 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Basis-of-Design Manufacturer/Product: The formed metal wall panels specified in this Section is based upon products of Tremco, Incorporated that are named in other Part 2 articles. Provide specified products or pre-approved equivalent products.

B. Comparable Products: Subject to compliance with requirements, manufacturers offering products that meet the aesthetic and performance criteria indicated herein may be incorporated into the Work upon pre-approval by the Architect prior to bid closing.

C. Source Limitations: Obtain components from the same manufacturer.

2.2 PERFORMANCE REQUIREMENTS

A. General Performance: Metal panel assemblies shall comply with performance requirements without failure due to defective manufacture, fabrication, installation, or other defects in construction.

B. Thermal Movements: Allow for thermal movements from ambient and surface temperature changes by preventing buckling, opening of joints, overstressing of components, failure of joint sealants, failure of connections, and other detrimental effects. Base calculations on surface temperatures of materials due to both solar heat gain and nighttime-sky heat loss.

1. Temperature Change (Range): 120 deg F (67 deg C), ambient;180 deg F(100 deg C), material surfaces.

2.3 METAL WALL PANELS

A. General: Provide factory-formed metal panels designed to be installed by lapping and interconnecting side edges of adjacent panels and mechanically attaching through panel to supports using concealed fasteners in side laps. Include accessories required for weathertight installation.

B. Flush-Profile, Concealed-Fastener Metal Wall Panels: Solid panels formed with vertical panel edges and flat pan between panel edges; with flush joint between panels.

1. Basis-of-Design Product: TremLock Flexx Wall Panel.

2. Metallic-Coated Steel Sheet: Aluminum-Zinc Alloy-Coated Steel Sheet: ASTM A 792/A 792M, Class AZ50 coating designation, Grade 50 (Class AZM150 coating designation, Grade 340); structural quality. Prepainted by the coil-coating process to comply with ASTM A 755/A 755M.

a. Minimum Thickness: 0.0236-inch/24 ga. (0.71-mm).

b. Surface: Smooth, flat finish.

c. Exposed Coil-Coated Finish: Three-coat fluoropolymer.

d. Color: As selected by Architect from manufacturer's full range.

3. Panel Coverage: 16 inches.

4. Panel Height: .75 inch.

2.4 ACCESSORIES

A. Panel Accessories: Provide components required for a complete metal panel assembly including trim, copings, fasciae, mullions, sills, corner units, clips, flashings, sealants, gaskets, fillers, closure strips, and similar items. Match material and finish of metal panels, unless otherwise indicated.

1. Closures: Provide closures at eaves and rakes, fabricated of same metal as metal panels.

2. Backing Plates: Provide metal backing plates at panel end splices, fabricated from material recommended by manufacturer.

3. Closure Strips: Closed-cell, expanded, cellular, rubber or crosslinked, polyolefin-foam or closed-cell laminated polyethylene; minimum 1-inch- (25-mm-) thick, flexible closure strips; cut or premolded to match metal panel profile. Provide closure strips to ensure weathertight construction.

B. Flashing and Trim: Formed from 0.018-inch (0.46-mm) minimum thickness, zinc-coated (galvanized) steel sheet or aluminum-zinc alloy-coated steel sheet prepainted with coil coating. Provide flashing and trim as required to seal against weather and to provide finished appearance. Finish flashing and trim with same finish system as adjacent metal panels.

2.5 MISCELLANEOUS MATERIALS

A. Panel Fasteners: Self-tapping screws, bolts, nuts, self-locking rivets and bolts, end-welded studs, and other suitable fasteners designed to withstand design loads. Provide exposed fasteners with heads matching color of metal panels by means of plastic caps or factory-applied coating. Provide EPDM sealing washers.

2.6 FABRICATION

A. General: Fabricate and finish metal panels and accessories at the factory to greatest extent possible, by manufacturer's standard procedures and processes, as necessary to fulfill indicated performance requirements demonstrated by laboratory testing. Comply with indicated profiles and with dimensional and structural requirements.

1. Site-rolled fabrication of panels or shop-rolling of panels using fixed equipment designed for site-rolling applications does not meet the requirements of this Section.

B. Fabricate metal panels in a manner that eliminates condensation on interior side of panel and with joints between panels designed to form weathertight seals.

C. Provide panel profile, including major ribs and intermediate stiffening ribs, if any, for full length of panel.

D. Sheet Metal Accessories: Fabricate flashing and trim to comply with recommendations in SMACNA's "Architectural Sheet Metal Manual" that apply to the design, dimensions, metal, and other characteristics of item indicated.

1. Form exposed sheet metal accessories that are without excessive oil canning, buckling, and tool marks and that are true to line and levels indicated, with exposed edges folded back to form hems.

2. Seams for Steel: Fabricate nonmoving seams in accessories with flat-lock seams. Tin edges to be seamed, form seams, and solder.

3. Sealed Joints: Form nonexpansion but movable joints in metal to accommodate elastomeric sealant to comply with SMACNA standards.

4. Conceal fasteners and expansion provisions where possible. Exposed fasteners are not allowed on faces of accessories exposed to view.

5. Fabricate cleats and attachment devices from same material as accessory being anchored or from compatible, noncorrosive metal recommended by metal soffit panel manufacturer.

a. Size: As recommended by SMACNA's "Architectural Sheet Metal Manual" or metal soffit panel manufacturer for application but not less than thickness of metal being secured.

2.7 GENERAL FINISH REQUIREMENTS

A. Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.

B. Protect mechanical and painted finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.

C. Appearance of Finished Work: Variations in appearance of abutting or adjacent pieces are acceptable if they are within one-half of the range of approved Samples. Noticeable variations in the same piece are not acceptable. Variations in appearance of other components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

2.8 FINISHES

A. Protect mechanical and painted finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.

B. Appearance of Finished Work: Variations in appearance of abutting or adjacent pieces are acceptable if they are within one-half of the range of approved Samples. Noticeable variations in same piece are not acceptable. Variations in appearance of other components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

C. Steel Panels and Accessories:

1. Three-Coat Fluoropolymer: AAMA 621. Fluoropolymer finish containing not less than 70 percent PVDF resin by weight in both color coat and clear topcoat. Prepare, pretreat, and apply coating to exposed metal surfaces to comply with coating and resin manufacturers' written instructions.

2. Concealed Finish: Apply pretreatment and manufacturer's standard white or light-colored acrylic or polyester backer finish consisting of prime coat and wash coat with a minimum total dry film thickness of 0.5 mil (0.013 mm).

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances, metal panel supports, and other conditions affecting performance of work.

1. Examine framing to verify that girts, angles, channels, studs, and other structural panel support members and anchorage have been installed within alignment tolerances required by metal soffit panel manufacturer.

2. Examine sheathing to verify that sheathing joints are supported by framing or blocking and that installation is within flatness tolerances required by metal soffit panel manufacturer.

3. Verify that weather-resistant barrier material has been installed over sheathing to prevent air infiltration or water penetration.

4. For the record, prepare written report, endorsed by Installer, listing conditions detrimental to performance of work.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Miscellaneous Framing: Install subgirts, base angles, sills, furring, and other miscellaneous panel support members and anchorages according to ASTM C 754 and metal soffit panel manufacturer's written recommendations.

1. Soffit Framing: Wire-tie or clip furring channels to supports.

3.3 METAL WALL PANEL INSTALLATION

A. General: Install metal panels according to manufacturer's written instructions in orientation, sizes, and locations indicated on Drawings. Anchor metal panels and other components of the Work securely in place, with provisions for thermal and structural movement.

1. Commence metal panel installation and install minimum of 300 sq. ft. (27.8 sq. m.) in presence of factory-authorized representative.

2. Shim or otherwise plumb substrates receiving metal panels.

3. Flash and seal metal panels at perimeter of all openings. Fasten with self-tapping screws. Do not begin installation until weather barrier and flashings that will be concealed by metal panels are installed.

4. Install screw fasteners in predrilled holes.

5. Locate and space fastenings in uniform vertical and horizontal alignment.

6. Install flashing and trim as metal panel work proceeds.

7. Locate panel splices over, but not attached to, structural supports. Stagger panel splices and end laps to avoid a four-panel lap splice condition.

8. Apply sealant continuously between metal base channel (sill angle) and concrete and elsewhere as indicated or, if not indicated, as necessary for weatherproofing.

9. Align bottom of metal panels and fasten with blind rivets, bolts, or self-tapping screws. Fasten flashings and trim around openings and similar elements with self-tapping screws.

10. Provide weathertight escutcheons for pipe and conduit penetrating exterior walls.

B. Fasteners: Use stainless-steel fasteners.

C. Metal Protection: Where dissimilar metals will contact each other or corrosive substrates, protect against galvanic action as recommended by metal panel manufacturer.

D. Joint Sealers: Install gaskets, joint fillers, and sealants where indicated and where required for weathertight performance of metal panel assemblies. Provide types of gaskets, fillers, and sealants indicated or, if not indicated, types recommended by metal panel manufacturer.

1. Seal metal panel end laps with double beads of tape or sealant, full width of panel. Seal side joints where recommended by metal panel manufacturer.

3.4 ACCESSORY INSTALLATION

A. General: Install accessories with positive anchorage to building and weathertight mounting, and provide for thermal expansion. Coordinate installation with flashings and other components.

1. Install components required for a complete metal panel assembly including trim, copings, inside and outside corners, flashings, sealants, gaskets, fillers, closure strips, and similar items.

B. Flashing and Trim: Comply with performance requirements, manufacturer's written installation instructions, and SMACNA's "Architectural Sheet Metal Manual." Provide concealed fasteners where possible and set units true to line and level as indicated. Install work with laps, joints, and seams that will be permanently watertight and weather resistant.

1. Install exposed flashing and trim that is without excessive oil canning, buckling, and tool marks and that is true to line and levels indicated, with exposed edges folded back to form hems. Install sheet metal flashing and trim to fit substrates and to result in waterproof and weather-resistant performance.

2. Expansion Provisions: Provide for thermal expansion of exposed flashing and trim. Space movement joints at a maximum of 10 feet (3 m) with no joints allowed within 24 inches (605 mm) of corner or intersection. Where lapped expansion provisions cannot be used or would not be sufficiently weather resistant and waterproof, form expansion joints of intermeshing hooked flanges, not less than 1 inch (25 mm) deep, filled with mastic sealant (concealed within joints).

3.5 FIELD QUALITY CONTROL

A. Manufacturer's Technical Representative: Engage a qualified manufacturer's technical representative acceptable to Owner to perform substrate examination, interim observations, and final roof inspections, and to prepare reports.

B. Remove and replace metal panels where inspections indicate that they do not comply with specified requirements.

C. Additional tests and inspections, at Contractor's expense, will be performed to determine compliance of replaced or additional work with specified requirements.

3.6 CLEANING AND PROTECTION

A. Remove temporary protective coverings and strippable films, if any, as metal panels are installed, unless otherwise indicated in manufacturer's written installation instructions. On completion of metal panel installation, clean finished surfaces as recommended by metal soffit panel manufacturer. Maintain in a clean condition during construction.

B. After metal panel installation, clear weep holes and drainage channels of obstructions, dirt, and sealant.

C. Replace metal panels that have been damaged or have deteriorated beyond successful repair by finish touchup or similar minor repair procedures.

END OF SECTION

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